

## A CONSOLIDATION OF BUEL'S CULTIVATOR AND THE GENESEE FARMER.

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"TO IMPROVE THE SOIL AND THE MIND."

## Cattle Show and Pair

Of the State Agricultural Society, to be held at Syrac on the 29th and 30th days of September, 1841.

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We are gratified at receiving assurances from all parts of the state, that the plan of the September Fair of the State Society is well received, and will doubtless be attended in such a manner as to make it one of the most interesting exhibitions of the kind that has yet taken place in this country. It will be seen by a reference to the list of premiums (see Cultivator for June, page 93,) that for cattle between thirty and forty premiums, varying from \$5 to \$20 in amount, are offered; on horses, eight premiums of from \$5 to \$20 in seen eight premiums of from \$5 to \$10; on sheep, eighteen premiums of from \$5 to \$10; on sheep, eighteen premiums from \$5 to \$30; making altogether a very extensive list of premiums, besides which a large number of discretionary premiums will be awarded on such articles as shall appear worthy of such distinction, and which could not be conveniently arranged under the foregoing classes.

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We think the conductors of the public press who are friendly to the cause of agriculture would confer an additional favor on their readers, if they would call the attention of their farming subscribers to this subject, and press upon them the necessity of encouraging and attenting not only the meetings and fairs of the State Society, but of adequately supporting, and efficiently organizing such county societies, as are contemplated in the law making provision for the advancement of agriculture. We trust that no remissness on the part of any will prevent the realization of the full benefits expected from these movements in behalf of agriculture.

## Agricultural Prospects-Improved Stock, &c.

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Since the July number of the Cultivator was issued, we have had the pleasure of an excursion through some of the western counties of this State, and though our time was necessarily limited, we had the satisfaction of calling upon many of our farming friends, and observing generally the appearance of the crops and the condition of agriculture. That great improvements are making in our husbandry, no one can doubt, who sees what it now is, and remembers what it was some twenty years since. In the appearance and management of the crops; in the kinds and qualities of the agricultural implements; in the superiority of the work performed; but more particularly in the animals on the farms, cattle, sheep, swine, &c. it is clearly to be seen great advances heve been made.

The early spring was most unfavorable to the operation of the farmer, cold and wet, and consequently backward; and this was followed from about the 20th of May with extremely dry and hot weather through the greater part of June. The sowing of the burley and spring wheat, had been much retarded, and when done, was not accomplished under the most favorable circumstances, and the spring grains generally received at the onset a shock, from the effects of which they will scarcely recover, even under the favorable weather and refreshing rains since experienced. In some few districts the wheat is quite inferior, and as a whole, will not, we think, come up to a medium crop. Never have we known a season, in which the effects of plaster on grass lands have been more manifest than this, and the thick bottom of white clover, and luxuriant red clo-

ver of the fields, where this substance has been used, demonstrates the advantage of its application. In the drier sections of the west, grass will be lighter than usual, and it will be necessary to give the more attention to raising and saving other materials for fodder. The growth of the root crops had evidently been cheeked by the dry weather, but are now coming on finely, and potatoes, &c. give a promise of good yields. Corn, we think, appears better than any other crop; the hot dry weather agreeing with this plant, and where the soil was in good condition, giving it an unwonted luxuriance. We have rarely, in any year, seen more beautiful fields of this truly valuable grain. Of fruit, we may say, without exaggeration, the country is literally full of it. Apples, pears, peaches, plums, (unless by the negligence of the owners, the trees have been destroyed by the blight,) cherries, and all the minor fruits, abound, and will contribute much to the prosperity and comfort of the farmer and others.

We were much gratified also, in witnessing the tone of public feeling, and the true spirit prevailing on the subject of agriculture. There is more self-reliance, more inquiry, more reflection on the principles of husbandry among farmers than there used to be; there is less dread of innovation; a thing proposed is not condemned untried or unheard because it is new, nor with many are agricultural heresies deemed sacred, because they are of venerable age. Scarcely a town, or even neighborhood, can be found, in which are not found some well informed, well read agriculturists, who, by the silent, yet powerful influence of example, are gradually dispelling the prejudices and errors that have so tong retarded the progress of the farmer. Such men bring to the notice of their neighbors and friends the agricultural journals of the day, and wherever these go, inquiry, experiment, and eventually improvement follow in their train.

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Few of the calls or visits made by us, gave more pleasure, than the one to the farm of Col. Sherwood, Few of the calls or visits made by us, gave more pleasure, than the one to the farm of Col. Sherwood, at Auburn; as here, owing to the accidental detention of half a day, we had an opportunity, for the first time, of seeing some of the beautiful Short Horns, from the herd of Mr. Rort-H, of Butternuts, Otsego county. Col. Sherwood, the well known stage proprietor, being, by the progressive extension of railroads, partially driven from the business he has so long followed with advantage to himself and the public interests, resolved, last year, to devote a portion of his time and capital to the pursuits of agriculture. For this purpose, he purchased the farm formerly owned and occupied by the late United States Marshal, N. Garrow, situated on the western border of the beautiful village of Auburn. Having selected a lot of the best cows to be found in his vicinity, he determined to procure a few of the best Improved Short Horns, and we had the pleasure of viewing his purchases, which were principally from the herds of Mr. Van Renselaer, of this city, Mr. Rotch, of Otsego, and Mr. Alexander, of the same county. Those from Mr. Rotch's stock, including those purchased of Mr. Alexander, exhibit in a striking manner the perfection and skill of good breeding, and present points of excellence, which are only found in animals bred by the most careful and competent observers; and those from this city were the choice of Mr. Van Rensselaer's herd. Altogether we think Col. Sherwood has reason to be proud of his stock, both blood and native, and we trust his success will be equal to the intelligence and enterprise he has shown in the undertaking.

After the examination of his own stock, Col. Sher-

ligence and enterprise he has shown in the undertaking.

After the examination of his own stock, Col. Sherwood had the kindness to accompany us to the farm of Major Dill, in the same vicinity, where, although the Major was unfortunately absent, we had the pleasure of seeing two beautiful Short Horn heifers, from the herd of Col. Randall, animals worthy of high commendation. We saw also a native heifer, of which, and justly too, the Major thinks very highly. In general appearance, she much resembles the cattle exhibited by Mr. Hooker, of Brighton, at the Monroe Agricultural Fair of 1833, and described by that gentleman in the Genesee Farmer, vol. 4.h, page 6. Mr. Hooker's cattle were black, with white spots, fine forms, and the prizes they received, showed the estimation in which they were held by the judges. According to Mr. Hooker's statement, they were "a cross of the Dutch Short Horn, with the Durham Short Horn." Major Dill's heifer is black, and from her form, color, and promising milking qualities, as well as her dam being black, it is probable she is from, or has partaken of the blood of that stock. Though but two years old, she has a calf by a Short Horn bull, and gives twelve quarts of milk per day.

It is surprising, when we reflect on the comparatively short time which has elapsed since public opinion has been directed to the subject, to witness the actual improvement in our domestic animals. Go where you will, you have pleasing evidence that the Berkshires, or their kindred improved breeds, are fast crowding out the omnivorous alligator races of swine from our land. Where the fineness of the wool grown is not so much of an object with the farmer, the fine South Downs are taking the place of the scraggy, coarse wooled sheep, that constituted the old flocks. And there is scarce a district in which traces of Short Horn blood are not to be seen more or less pure, in the herds that graze our rich pastures. In short, we find everywhere in the country, the most satisfactory evidences that farmers are fast assuming their true position in the State; that the cry of hard times is much less frequently felt than formerly; that honest industry is receiving a proper reward, and that in the spread of intelligence, knowledge and education, we have the surest guarantee that a state of things so properous will still be continued.

\*\*Rentucky \*\*Blue Grass\*\*

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\*\*Rentucky Blue Grass.\*\*

Mr. John Lewis has transmitted to us a memoir prepared by him on the subject of this grass, which, from the minute accuracy of the details, the botanical skill of the writer, and the perfect manner of the investigation, will, we hope, settle the proper place, name, and character of this grass among naturalists.

That it belongs to the Poa family or genus, was admitted by all; but there has been much dispute as to its species, and it has been by different writers called P. viridis, P. pratensis, and P. trivialis, and more recently Mr. Nuttall has described a species which he has called P. pungens, which appears in many respects to resemble this grass perfectly. According to Mr. Lewis, the celebrated Blue grass of Kentucky, and to the excellent qualities of which the great superiority of the beautiful pastures of that state is minily owing, is called in Virginia goose grass, yard grass, green sward; in England great or smooth stalked meadow grass, and if so, it appears to be the same grass called in the northern states June grass, or the P. pratensis of botanists, which Mr. Lewis, as well as Mr. Stevenson, the able editor of the Kentucky Farmer, who assisted in verifying the details, is disposed to consider it.

We cannot imagine, when we reflect on the immense importance of the true grasses to the agriculture of the country, the trifling shades in appearance by which grasses wholly distinct in quality arese parated from each other, and the confusion in names which prevails even with regard to some of those the most common and best known, of a greater benefit that could be conferred on the agriculture of the United States, than a volume by some competent person on our grasses, indigenous and acclimated, with figures which shall make the distinctions apparent to all such as take an interest in such

some competent person on our grasses, indigenous and acclimated, with figures which shall make the distinctions apparent to all such as take an interest in such matters. Such a work we hope will ere long be undertaken, should not the volumes published as part of the survey of this state, render it unnecessary.

## Florida Fruits.

Florida Fruits.

Col. Wyatt, of Florida, in answer to some inquiries of Judge Breckenridge, of Pittsburg, has furnished several papers for the National Intelligencer, containing much curious information respecting that country and its productions. Col. Wyatt thinks that eventually it will become one of the finest and most productive sections of the United States; that the famous everglades will be drained, and that the culture of sugar, Cuba to bacco, tropical fruits and plants, and indeed all kinds of valuable trees grown in any southern clime, will be successfully prosecuted.

In answer to an inquiry respecting the value of one acre of tropical fruit, Col. Wyatt says,—"I have no positive data to govern me in this estimate; but I would say that one acre cultivated in orange or lemon, allowing two hundred trees to the acre, (not an over number, I think,) and producing one thousand to the tree, valued at one cent each, would yield a crop worth \$2,000. One acre planted in sugar cane, producing 2,000 lbs. at 4 cents per pound, would amount to \$80; the same in cotton producing 200 pounds of cleaned cotton of the first quality, at 30 cents per pound, would come to \$60. An acre planted to other tropical fruits, such as the pineapple, fig, plantain, or banana, would no doubt far exceed the estimate for the orange and lime." Col. Wyatt deeps the territory unfit for the culture of the coffee tree, that requiring a deep soil, and the whole of Florida being based on a limestone rock with a shallow soil, not suited to the long tap root of the coffee tree.

## NEW PUBLICATIONS.

### Prof. Silliman's Journal.

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Prof. Silliman's Journal.

We have just received the July number of this always welcome and truly valuable journal. It contains as usual a great variety of papers, interesting to the acientific and general reader, and among others a report of the proceedings of the late meeting of the American Geological Association at Philadelphia. It contains, also, an able, but brief, "Preliminary account of the Hessian Fly and its Parasites," by E. C. Herrick, of the Yale College Natural History Society. Mr. H. has for a number of years been studying the history of the Hessian Fly, its habits, changes, &c. and we are pleased to learn that the present contribution is only preliminary to a more full and extended exposition of the subject. Of the first appearance of the insect in this country, the origin of its name, and the fact that it exists in Europe, and has been known for centuries, Mr. H. gives many interesting particulars. It has been doubted by some European writers whether the Hessian Fly was known in that part of the world, but Mr. Dana, who has been engaged with Mr. H. in these researches, having visited the Mediterranean, has proved that the insect is there, he having found it in the larva and pupa state in wheat plants on the island of Minorca, and from these the perfect insect, the Cecydomyia destructor, or true Hessian Fly, was evolved. There is no trace of the Hessian Fly in this country previous to the Revolution, which renders the common notion of its introduction by foreigners not improbable. An important part of Mr. Herrick's paper is that relating to the destruction of the fly, effected by parasites, Mr. H. estimating that at least nine-tenths of every generation of the fly is destroyed in this way. Mr. Herrick describes four species of parasites, one of which attacks the egg, and three of them the pupa of the fly. They are all minute Hymenoplerous insects, and in some instances have been mistaken for the Hessian Fly itself.

There is little doubt that a number of other insects besides

competent observers to elucidate their habits will be received by the farmer with thankfulness, since a discovery of their habits offers one of the best means of counteracting their ravages. "
The Journal is published at New-Haven, Conn., by B. L. Hamblin, and conducted by Prof. Silliman and B. Silliman, Jr., at six dollars per annum. Agents in New-York, Wiley & Putnam, 161 Broadway—in Albany, W. C. Little.

North American Review—Liebig's Chemistry, &c.
The July No. of this ably sustained and leading Journal of American Laterature, is before us, with its usual
complement of well-written and interesting articles.
Among these are reviews of Robinson's Travels in Palestine, the Madison Papers, and, which is of particular interest to agriculturists, a very particular examination of Liebig's Chemistry applied to Agriculture.
There are few works at the present day that have been
so generally welcomed, and received with such universal favor as Liebig's volume, and Dr. Webster has conferred an important favor on American farmers by giving the public his edition with its valuable notes and
appendix. Some of our contemporaries, who were disferred an important lavor on American larmers by giving the public his edition with its valuable notes and appendix. Some of our contemporaries, who were disposed to imagine that we, in our notice of the London edition of this work, gave Dr. Liebig more credit than he was entitled to, will now, that the work is placed within their reach, be able to correct the errors into which they have fallen in regard to this subject. The Quarterly Journal of Agriculture has an able and discriminating paper on the volume, in which high praise is awarded to Dr. Liebig, although it dissents in some instances from his conclusions.

We have only room here to give the opinion of the American reviewer on the character of the volume:

"We regard the work of Liebig, as a work of extraordinary philosophical acumen, and conferring upon him the highest honor. The more it is examined, the deeper will be the interest it will create, and the stronger the admiration of the ability with which it is written. It is a work not to be read, but studied; and if further inquiries and experiments should demonstrate, as seems to us from many facts within our knowledge in the highest degree probable, the soundness of his views, his work, not merely as a matter of the most interesting philosophical inquiry, but of the highest practical utility, will be invaluable."

Experiments made at the Boston Conservatory the

Experiments made at the Boston Conservatory the present season, corroborate in nearly every particular, Prof. Liebig's views of the nature of carbon, ammonia, &c. in promoting the growth of plants; thus affording new proof of the value of the chemical sciences when applied to an elucidation of the laws that govern the nutrition of vegetables.

The N. A. R. has reached its 112th number; is published in quarterly numbers of about 275 pages each, at \$5 per annum, and is sent by mail to any part of the United States. Munroe & Co. 134, Washington-street, Boston, are the publishers. Subscriptions received by Wiley & Putnam, 161 Broadway, and by W. C. Little, Albany.

## New-England Farmer.

New-England Farmer.

This sterling and always valuable agricultural periodical, has just entered upon its 20th year; being, with the exception of the Am. Farmer at Baltimore, the oldest of the American agricultural journals. Under the Supervision of its present able editor, the Rev. Allen Putnam, the Farmer is sure to lose none of the high character it has long and deservedly sustained, as the lead-

ing agricultural journal of New-England. A complete copy of the New-England Farmer, is the best history of American agriculture, (particularly in the northern states,) for the last twenty years, any where extant. If any proof were needed of the deep hold which agricultural improvement has taken on the public mind, and the rapid advance which the demand for agricultural intelligence is making, we have only to look back for a few years and compare the American Farmer and New-England Farmer, struggling for a doubtful existence, with the liberal patronage and extensive circulation, which not only these, but a multitude of other papers devoted to the same great object, are now receiving in this country. Success, we say, to the agricultural press and the cause of agriculture.

## District School Journal.

This excellent publication, one so much needed, and one so essential to the prosperity of our magnificent and extended common school system, has, we are pleased to perceive, been removed to this city, and the first number of the second volume has just been issued in an enber of the second volume has just been issued in an en-larged form, on fine paper, and from the same press with the Cultivator and Northern Light, a sufficient guarantee for the excellence of its execution. By a law passed at the last session of the Legislature, the Super intendent of Common Schools is authorized to subscribe passed at the insistession of the Legislature, the Super-intendent of Common Schools is authorized to subscribe, in behalf of the State, for a copy of this Journal for each school district in the State, or to the amount of \$2,800, to be paid from the U. S. Deposite Fund; and it is to be hoped that the town clerks will immediately com-ply with their duties in this respect, that the Journal may be forwarded to the several districts as soon as practicable. The name of the clerk of the district, or where this is not known to the town clerk, the name of one of the trustees may be sent; and the name of the post-office to which the paper for each district is to be sent, should be particularly specified to prevent mis-takes. The District School Journal will be the medium of communication between the Superintendent and the officers of Common Schools, will contain a record of his decisions on any questions that may arise, explanations of the several acts relating to schools, and important officers of Common Schools, will contain a record of his decisions on any questions that may arise, explanations of the several acts relating to schools, and important papers and suggestions relative to the best management, teaching, &c. of common schools. Under the more immediate supervision of the indefatigable Superintendent and its able editor, F. Dwight, Esq. the Journal cannot fail to be one of the most useful aids to the great cause of education, in the country. To the officers of our district schools, and in particular to every teacher, it is indispensable. The present number contains the new act relating to common schools, passed May, 1841; explanations by the Superintendent; an important decision on the duties and responsibilities of Commissioners of Common Schools and Trustees, in the receipt and payment of public money; appointment of a General Deputy; editorial papers; meeting of supervisors; teachers of summer schools; a most valuable paper on the "Modes of Instruction in Common Schools," by "A. "; (this paper we should be happy to transfer to our columns, and will hereafter endeavor to make room for it if possible;) an article on "Drawing, for Schools, typeums, and Families," by Josiah Holbrook; and a well written story illustrating the government of children. We trust the Common School Journal will receive, as it deserves, an extensive circulation. Terms, 50 cents a year.

"The Orchard and Fruit Grower."

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We get up some very beautiful books in this country, and the art is evidently making rapid progress among us; still in matters of taste the Londoners, from their long experience and ample means, must be considered altogether ahead of us. Here is this volume, of which the title is given above, with its fine paper, splendid binding, gilt edges, and beautiful illustrations, more resembling an 'annual,' than a book devoted to the culture of trees and fruits.

Mr. McIntosh has given the public a work, which will be acceptable to every fruit grower, containing as it does, full accounts of all the most valuable cultivated fruits, lists of their varieties, extensive and useful, and illustrations of quite a number of fruits, 'colored to the life." The directions for grafting, budding, &c. are ample, and the various diseases of fruit trees, as they occur in England, are carefully noticed, and proper remedies pointed out. It is somewhat remarkable, that among the varieties of fruits, will be found some marked as first rate, and considered of undoubted value, which, in this country, are not ranked higher than second or third rate fruits. The apple, pear, and particularly the peach, furnish examples of this, a result, probably, owing to the difference of climate in the two countries. It is also singular, that in the list of diseases of the plum and cherry, there is nothing to be found resembling the black blight, or black excrescence which is proving fatal to so many of these valuable fruits in this country. Particular mention is made of the American blight or cottony aphis, (Aphis lanigera,) the origin of which has usually been attributed to this country, but which Salisbury thinks can be satisfactorily traced to France. It is one of the most injurious insects in the British fruit gardens or orchards, but it can scarcely be said to have an existence in our orchards, or in the country, it is so rarely met with.

We have never seen any fruit colored in imitation of nature so successfully perf

figs, gooseberries, pears, peaches, plums, raspberry, strawberry, grape, &c. We hope the time is not distant when the public taste will authorise American publishers to undertake the production of volumes similarly illustrated, as correct drawings, faithfully colored, are to the fruit grower what maps are to the student in geography. geography.

The English New Farmers' Journal.

The English New Farmers' Journal.

An agricultural journal, with the foregoing title, has lately been commenced in London, in connection with the "Society for the Protection of Agriculture," and the numbers display considerable talent as well as much zeal in the cause to which it is devoted. The favorable auspices under which it has commenced, and the array of practical men engaged in its support, will doubtless give it permanency and extensive usefulness. array of practical men engaged in its support, will doubtless give it permanency and extensive usefulness. The New Farmers' Journal is a warm, not to say violent, advocate of the present Corn Law system in Great Britain, and vehemently deprecates the changes contemplated by the ministry. We think, however, the advocates of existing abuses, and such to a certain extent the Corn Law system certainly is, will find it difficult for any considerable time, to stem the current of public opinion, and that, should the present ministry be overthrown in the struggle, their successors, to be secure of their seats, must make such concessions and alterations as the mass of the nation demand. Those in this country who take an interest in those topics, upon which one of the fiercest struggles for power which has ever occurred in Great Britain, is now turning, will find in the New Farmers' Journal the best record of the progress and the probable results so far as the question of bread or the Corn Laws is concerned. The Journal is a large sheet of eight pages, and gives a general synopsis of integering Eugeness and the proposale contributes. bread or the Corn Laws is concerned. The Journal is a large sheet of eight pages, and gives a general synop-sis of interesting European news, independent of its agricultural articles

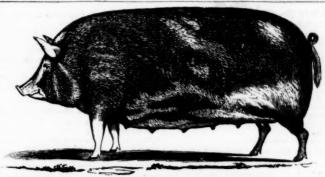
### Growing Plants in Charcoal.

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Growing Plants in Charcoal.

In the appendix to the first part of Prof. Liebio's Organic Chemistry, is an interesting paper on the action of charcoal on plants, from "Buckner's Repertorium," by E. Lucas. The experiments were performed at Munich. That plants would vegetate and grow in nearly pure charcoal, was discovered by accident, and this discovery was followed by experiments which placed the action of this substance in a curious and striking light. The first experiment consisted in mixing a certain proportion of charcoal dust with the soil, increasing the quantity in the successive experiments until pure charcoal dust was alone used. When two-thirds of the coal was used with vegetable mold, several classes of plants, such as the Generia and Aroideae, were found to thrive admirably, and attracted much notice by the great beauty of their parts, and their general paperannee. They quickly surpassed those cultivated in the common way, in their thick stems, rich color of their leaves, and their beautiful blossoms. "A Caclus placed in a mixture of equal parts of charcoal and earth throve progressively, and attained double its former size in the course of a few weeks." It was also found that in all those cases in which it was customary to mix sand with the mold in which plants were to be set, the substitution of charcoal dust for the sand, always rendered the vegetation stronger and more vigorous.

Experiments were now made with pure charcoal, and the best results were obtained. More than 40 species of plants, which are many of them named, were grown in this way; and cuts of plants from different genera took root and grew well and quickly. "Pure charcoal acts excellently as a means of curing unhealthy plants. A Dorianthes excelso, for example, which had been drooping three years, was rendered completely healthy in a very short space of time by this means. An orange tree which had the veg



## PORTRAIT OF DR. MARTIN'S BERNICE. -[Fig. 66.]

The above portrait was taken by Mr. Foster, for the Western Farmer and Gardener, from which paper we copy it. Bernice was from a Woburn sow by a white Berkshire boar, and weighed, when 8 months and 7 days old, 354 lbs. We shall in our next, give a portrait of Dr. Martin's Woburn sow, the dam of Bernice.

Teeding Pigs, &c.

In the June number of "The Agriculturist," is Dr. Martin's account of his method of feeding his pigs in the experiment of feeding Berkshires against Woburns, noticed in our last number, page 106. At first, every morning and evening four pints of meal were made into mush, and this, mixed with sufficient milk to enable them to swallow it with ease, was found to agree with them, and was never all eaten. Afterwards they had their meal made into bread, and fed to them in the middle of the day. Six pounds were allowed, but they were unable to eat it all. One pound of cracklings a day was allowed part of the time, but it disagreed with the pigs, and was discontinued. As the feeding progressed, the meals, morning and night, were mush and bread, and vegetables of some kind at noon. After they began to receive their vegetables, which were apples, potatoes, cabbage, carrots, beets, &c. they generally eat the whole of their food. Under this system of feeding, one of the pigs, Bernice, a portrait of which is given above, (fig\* 66,) in 90 days gained 1764 pounds, and the other, Bertha, 187 pounds. On the 11th of April, Bertha, was bred to one of Mr. Martin's boars, and from the 13th to the 20th she gained thirty pounds, being at the rate of four and a half pounds per day. "But a part of this was filling up after living on half allowance for some days." Such experiments as have been made by Messrs. Fanning and Martin, are always interesting; but they may be made more accurate, by ascertaining the quantity and value of the food consumed, by feeding different pigs at the same time on different kinds of food, and thus ascertaining the nutritive powers of each, and a register of the results drawn up in a tabular form, which will give at a single view these several points, which are of the most consequence to the farmer. The great Valley of the West offers the most extensive field of agriculture in the world, and present appearances indicate that the men who inhabit it are happily not deficient in the energy and

Bigns of Botter Times.

1. ALL agricultural produce commands a fair, steady, compensating price, alike removed from the depressed state which sometimes has existed, or the unnatural inflation through which we have just passed.

2. Speculation has had its day, and the thousands who have been ruined, have had time to repent at their leisure. The mass of the nation are convinced that honest industry, and slow and sure profits, are far preferble to the haphazard and demoralizing influence of such haste to be rich.

3. Agriculture, it is evident, is assuming its proper place in the estimation of the public. This may be attributed in part to the knowledge respecting it, which has been distributed by agricultural census, the results of which have demonstrated the paramount importance of this interest.

4. We find evidence that the mass of reading men begin to think and demand information on the subject of agriculture, in the fact that all our leading newspapers and most influential journals, are in the habit of devoting a part of their publications to the dissemination of papers interesting to the farmer.

5. In the processes of farming, yearly advances are

the cleaning of land, and the destruction of weeds, than

formerly.

6. Superior breeds of cattle, sheep and swine have been introduced, and are rapidly spreading over the country; in short, the elements of individual and national prosperity were never more fully developing themselves than now. Let the farmer be thankful.

### Planting Trees.

Planting Trees.

We hope those who, during this sultry weather, are enjoying the coolness and beauty of foliage from trees planted by the hands of others, will reflect, whether they are not under some obligation to do something in the same way for the benefit of others. Grounds planted with trees do not add more to the beauty of the land-scape, than they do to the comfort and health of the inhabitants. That wise provision of Providence, by which the leaves of trees are the great purifiers of the air, absorbing the carbon and liberating the oxygen, has rendered it necessary that plants should exist, and there are few that so well unite beauty and utility as do trees. How certainly, when traveling through a country, if we find a farmer, the roads through whose grounds are planted with trees, his farm buildings embowered in fruit or ornamental trees, and a few clumps or single trees scattered about his fields for the comfort of his animals, do we set down such a man as one of intelligence, taste, and usually of thrift. There is nothing more detrimental to the proper arrangement of farms, and their adaptation to the comfort and convenience of the owner, than the continual shifting and migration so common among our farmers. That man rarely has patriotism or love for his fellow-men strong enough in his breast, to pay much attention to beauty, or even comfort in what he does, who is expecting or intending to change his residence the first opportunity that offers. Men may, and doubtless do, sometimes better themselves by selling and removing, or by exchanging farms, but the reasons for removal should be well weighed, and the prospects of advantage or disadvantage fully considered, before any such movement is made. We would particularly advise the young man, about to commence life, to be very cautious in purchasing his farm, but when once bought, unless imperative reasons forbid, to consider it his home for life, and to set himself in earnest to make such arrangements as shall, at a future day, or as soon as possible, m

about to commence life, to be very cautious in purchasing his obsect crops have netted, it is clear a different system to be demanded. There must be more roots, more grass, more cattle, more swine, and, as a natural consequence of the preceding, more wheat grown, if the farmers of the preceding, more wheat grown, if the farmers of the preceding, more wheat grown, if the farmers of the preceding, more wheat grown, if the farmers of the preceding, more wheat grown, if the farmers of the preceding, more wheat grown, if the farmers of the preceding more wheat grown, if the farmer is dense so desirable, that change shall be regarded as a focult with these, and the promptings of the "Agriculturist," it is scarcely possible a better state of things should not soon prevail.

Signs of Better Times.

1. All agricultural produce commands a fair, steady, compensating price, alike removed from the depressed state which sometimes has existed, or the unnatural infaction through which we have just passed.

2. Speculation has had its day, and the thousands who have been ruined, have had time to repent at their lesisure. The mass of the nation are convinced that honest industry, and slow and sure profits, are far preferable to the haphazard and demoralizing influence of such haste to be rich.

3. Agriculture, it is evident, is assuming its proper place in the estimation of the public. This may be attributed by agricultural profits, are far preferable to the commensuration of the public. This may be attributed by agricultural profits, are far preferable to the commensuration of the public. This may be attributed in part to the results of the agricultural profits of their publications to the dissemination of papers interesting to the farmer.

5. In the processes of farming, yearly advances are fine to think and demoralizing to the farmer.

What is there to hinder the planting of trees by the road side becoming part of the common system of highway management? In Germany, the roads for hundreds of miles are bordered with trees, and contribute as much to the beauty of the country as to the comfort of the traveler. A little time spent every year in each district, in transplanting trees, would, in a short time, wholly change the character of large sections of our country, so far as appearance is concerned. Our forests will furnish abundance of suitable trees, particularly in those places where the large timber has been cut out, and young trees from such places are more likely to succeed than if taken from the depths of the woods. Let the experiment be tried; let the maple, elm, ash, linden, or, indeed, almost any other forest tree be planted out, and the most of those who assist in the labor, will participate in the pleasure and the benefit they will assuredly confer. But if those do not, others will; the present generation is not the last, and if taste and intelligence increases, as we hope they may, there are few claims on the gratitude of posterity that will be more cheerfully honored, than the one arising from the improvement of the country by the planting of trees.

## Currant Worm.

We have noticed that in many parts of the country the currant has this year been extensively attacked by a new enemy, or, if an old one, in far greater numbers than ever before known, in the shape of a small green worm, which multiplies so rapidly, and is so voracious, that bushes attacked by them are stripped of every leaf in a very short time, and the fruit, if it does not fall of is consequently poor and worthless. It feeds on the gooseberry also, but prefers the currant, and is a different worm from the gooseberry depredator, the Abraxus grossularia. The following description of this currant worm, we copy from McIntosh's Orchard and Fruit Garden, as it is very accurate and divested of technicalities:

Garden, as it is very accurate and divested of technicalities:

"Early in March, if the weather be favorable, the first flies of this insect, the Nessalus ribesi, issue from the chrysalis, a few inches below the soil, at the foot of the bushes. Soon after the females deposit, on the under surface of many of the leaves, along the ribs of each leaf, a series of eggs, which appear like strings of small, pellucid, delicate, oblong beads. A single fly will fill up the ribs of many leaves; and as many generations are produced in one season, the destruction of a single fly at an early period, is the prevention of some thousands of voracious successors. The following times of hatching, &c., may be relied upon as accurate. On the 9th of April the eggs are hid; on the 19th they are hatched; and, if the temperature be mild, the caterpillars grow rapidly, and from their numbers, soon destroy the foliage on the chosen bush. They usually continue in the caterpillars store about 10 days, when dropping to the earth, they penetrate below the surface, and change into a small brows chrysalis; in which dormant state they remain from 18 to 17 days, and then come forth as flies, which in a day or two lay their respective quantities of eggs." The writer adds, "I am not aware that any limits of season act as a check, unless attended with a decrease of temperature, which of course puts a period to their progress. The grub or worm is of a green color, (from three to five-eighths of an inch long.) covered with many very minute black tubercless, which it loses at its last moult. Its ravages are worse than that of the gooseberry worm." "The most effectual remedy," says the same work, "y yet discovered, is syringing the bushes over, on the first appearance of the enemy, with clear lime water, making use of the best or inverted syringe for the purpose of throwing the water on the under side of the leaves."

The currant is a valuable fruit, and as yet in the States has been remarkably free from insects. It may, howe-

The current is a valuable fruit, and as yet in the States The currant is a valuable fruit, and as yet in the States has been remarkably free from insects. It may, however, become as infested here as abroad, and a few such strippings of the foliage as some gardens have received this year, would destroy the bushes entirely. It would be well, therefore, for gardeners and others who have such bushes to be on their guard, and by timely attacking the worm, prevent the certain spread of the evil.

Strawberries.

""The strawberry should have a place in every garden"—says the Albany Cultivator. Perhaps it should around Albany, where few or no strawberries grow spontaneously in the fields; but here, in Maine, we believe strawberries should have a place in no garden; we have so many millions of them in our fields, that there is no necessity for cultivating them." So says our friend Dagw, of the Maine Cultivator, and sorry we are he has said it; since fertility, and "millions" of strawberries, are never, we believe, associated in the mind of the farmer. We have never known a pasture with a close sward of white clover, timothy and blue grass, a pasture that produces fat kine, or fills the dairy woman's pail; or a meadow that would cut three or four tons of hay per acre, that had millions of strawberries growing in them. And further, we have found that when we were so unfortunate as to have strawberries in our meadows, the damage done to the grass, and the increased difficulties of mowing, greatly outweighed all the profits of the berries. The farmer does not always have strawberries brought to his door at three pence a quart, nor can his wife or daughters always leave their work to ramble over the fields to gather them. We still say, therefore, to every farmer, have a strawberry bed in your garden. They are easify cultivated, will produce bountfully, may be gathered readily, and every one knows strawberries and eream make a dish not to be sneezed at.

Correction.—A correspondent wishes to correct the testement made by Mr. Edgerton of Mt. Morish, in the

Connection.—A correspondent wishes to correct the statement made by Mr. Edgerton of Mt. Moriah, in the April No. of the Cultivator, respecting the quantity of carrots raised per acre, it being stated too high by 140 bushels; and he wishes to ask whether, when it is stated that some of the roots were 18 inches in "diameter," it ought not to read "circumference?"

## AGRICULTURAL SOCIETIES.

## New-York State Agricultural Society.

THE July meeting of the Executive Committee of this society was held at Niblo's, in New-York, on the 21st—the President in the chair. Gentlemen were present from the counties of New-York, Dutchess, West-chester, Kings and Queens. Of the Executive Committee, Messrs. Johnson, Walsh, Nott and Tucker, were present.

On motion of the Hon. Jeremiah Johnson, a co On motion of the Hon. Jeremiah Johnson, a committee was appointed for the county of Kings, to solicit members and contributions to the society. A similar committee was appointed for New-York; and on motion of A. G. Carll, Esq. of Jericho, for the county of Queens; for Dutchess, on motion of J. W. Kneevels, Esq. of Fishkill; and for Westchester, on motion of T. Fountain, Esq. of Peekskill.

The following members were admitted:
Carll, A. G. p. m. Jericho. Mott, Jordan L., New-York, \$5.

And to lolowing memoers were aumitted:

Carll, A. G. p. m. Jericho.
Gere, Luther, Ithaca.
Ingeli, Wm., Voiney.
Johnson, Jere'h, Brooklyn, \$10.
Underhill, R. S. do.
Kneevels, J. W., Fishkill.
Kowwenhoven, G., Fiatlands.

On motion of the President, it was resolved that the ext meeting of the Executive Committee be held at ust's Hotel in Syracuse, on Wednesday, August 18, at 0 o'clock A. M. for the purpose of appointing commitses, and making the necessary arrangements for the air to be held at that place on the 29th and 30th days September, 1841.

### Onondaga Co. Ag. Society Pair.

Onendaga Co. Ag. Society Fair.

The Annual Meeting and Fair of this Society is to be held at Syracuse, on the same days (the 29th and 30th days of september,) with those of the State Society, which meets at the same place. Liberal and numerous premiums have been offered, and arrangements made which it is believed will be satisfactory to all. It is cheering to receive from every part of the state, and particularly from the old and substantial agricultural counties such proofs of a revived interest in the cultivation of the soil. The autumn of 1841, will be but a succession of these farmer's holidays in the state of New-York, and an impulse to the good cause may be expected, the influence of which will long and beneficially be felt.

## County Ag. Societies in New-York,

JEFFERSON—A Society was organized in this county on the 19th of June. The following are its officers: ORVILLE HUNGERFORD, President.

W. C. Pierpont, Elisha Camp, Robert Doxtater, George White, George White, C. E. Clarke,

VICE PRESIDENTS.

Wm. McAllister,
Wm. Carlisle,
Geo. Brown,
Abiathar Joy, jr.
Geo. Woodruff.

George White,
C. E. Clarke,
E. Edmund Kirby,
John L. Goldsmid,
N. M. Woodruff,
Micar Strains, Watertown, Corresponding Scaretary.
A. B. Haaytos, Treasurer.
Admir. E.r., Recording Secretary.
NIAGARA—A meeting was held at Lockport on the 3d of June, at which an Agricultural Society was formly, and the following officers chosen:
WILLIAM PARSONS, President.
JOHN GEULD, Jr. & C. H. Shirles, Vice Presidents.
JOHN GEULD, Jr. & C. H. Shirles, Vice Presidents.
JOHN GRUD, Jr. & C. H. Shirles, Vice Presidents.
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JOHN GRUD, Jr. & C. H. Shirles, Vice Presidents.
JOHN GRADALL, Recording Secretary.
RENSSELAER—A meeting was held at Troy on the

W. O. Brows, Treasurer.
D. S. Crasdall, Recording Secretary.

RENSSELAER—A meeting was held at Troy on the 8th of July, at which an Agricultural Society for this county was organized, a constitution adopted, and the following officers elected for the current year:

JOSEPH HASTINGS, Esq., of Brunswick, President.
Vice Parsiders.

Daniel Simmons, Brunswick, User Parsiders.

Martinus Lansing, Greenbush.
I. A. Fonda, Hoosick.
Jacob Heermance, Nassau.
Henry Hull, Petersburgh.
GILES B. KELLOGG, Troy, Georging Secretary,
JAMES M. SIXYENSON, Troy, Treasurer.

W.P. VanRensselaer, Greenbush George Vail, Troy.
A. D. Spoor, Brunswick
W.W. A. McCulloch, Greenbush.
SARATGA—The organization of an Agricultural So-

SARATOGA—The organization of an Agricultural Society took place on the 24th June. Its Fair is to be held at Ballston on the 1st Tuesday of October. Officers as

OWS:

HOWELL GARDNER, President,
CALVIN WHEELER and JACON DENTON, Vice Presidents,
Anchibalo Smith, Ballston Spa, Corresponding Secretary,
Hiram E. Howard, Tressurer,
John A. Corky, Recording Secretary.

John A. Corky, Recording Secretary.

Meetings are to be held for the formation of Agricultural Societies under the late law as follows:

Columbia—At the court-house in Hudson, August 13, at 1 o'clock, P. M.

Scherketary—At the court-house in Schenectady, August 16, at 2 o'clock, P. M.

Washington—At the house of L. Cottrell in Argyle, August 4, at 11 o'clock, A. M.

Westchester—At the house of S. M. Tompkins in Sing-Sing, August 19, at 10 o'clock, A. M.

Elizabeth City Co. (Va.) Ag. Society.

Extract of a letter from Hampton, (Va.) dated July 17, 1841:—"On the 29th June, an Agricultural Society was organized in this County, styled 'The Agricultural Society of Elizabeth City County, Virginia.' The following gentlemen were elected officers thereof:

An e following gentlemen were elected officers thereof:

ROBERT ARCHER, President.
George Booker & James M. Vaughan, Vice Presidents.
W.M. Massenberg, Treasurer.
M. Fire Gibbon, Recording Secretary.
A. B. McLean, Hampton, Corresponding Secretary.
George Booker, Robert Archer, John Jones, Ex. Committee.
An appropriate address was delivered at the meeting by the President, a copy of which I will obtain and forward you hereafter."

### La Porte (Ia.) Ag. Boc .- Mr. Niles' Addre

La Porte (Ia.) Ag. Boc.—Mr. Nilos' Address.

We have read with pleasure the excellent address of Mr. J. B. Niles, before the Agricultural Society of La Porte, Indiana. It is full of correct feeling, sound sentiments and encouragement to the agriculture of the west. The immense resources of the Ohio and Upper Missispipi Valleys have hardly begun to be developed. Every thing indicates that the climate, the soil, and the seasons have combined to make it the greatest grain and meat growing country on the globe. The obstacles to a market are now fast being overcome, and the continuous stream of flour and pork that is finding its way to New-York, through the Eric Canal, from these very states, which, but a few years since, were a vast wilderness, is the best proof that can be offered of what we may expect when the broad prairies and beautiful uplands of that vast region, shall teem with an industrious agricultural population. We learn from the Michigan City Gazette, that La Porte county, which lies at the S. E. angle of Lake Michigan, contains about 400 square miles, that in 1840, twenty-five thousand acres were in wheat, (the greater part of which was destroyed by an unprecedented blight;) that there is about the same quantity the present season; that many farmers have from 100 to 500 hogs intended for slaughter next fall, and that 20,000 pork barrels have already been engaged; and that in all probability from 30 to 40 thousand barrels of pork will be packed from that county alone.

La Porte, it must be remembered, is but one of the

ty alone.

La Porte, it must be remembered, is but one of the

La Porte, it must be remembered, is but one of the many equally fertile counties of Northern Indiana, and from this fact we may form some estimate of their present agricultural wealth and resources.

We should be gratified to extract liberally from Mr. Niles' address, but the following on the circulation of agricultural intelligence, is all we can find room for, and is so just we cannot omit it:

"Every farmer-every man who cultivates even a garden—and who among us does not? should be supplied with an agricultural periodical. Who will not find in such a paper, some single suggestion doubly worth its cost? New discoveries are generally the result of accident, or only of long continued scientific research. When we remember that the human family existed for thousands of years, in utter ignorance of such a fact as the circulation of the blood, is it surprising that men should be inclined to continue in one routine of farming operations, without deviating from the besten track, for no better reason than that their fathers and neighbors have set them the example. Take a well conducted agricultural paper, and you are no longer limited to your own experience and observation, but you may draw upon the experience of all the world. By the agency of the press, space is annihilated—minds are brought in contact—and whatever discovery, practice or science, may suggest, on either side of the Atlantic, it can immediately be made as useful to you as to the discovere himself."

IN traveling about the country, one cannot avoid having the conclusion forced upon him, that farmers are inattentive to the state of their roads, and from having used bad ones so long, have ceased to be aware of the immense difference there is between transporting a load to market over a good, smooth road, and one which is muddy, sideling, and full of ruts, holes, and gullies. Could their horses, however, be allowed to give an opinion we think they would estimate the difference in their favor between a good road and a bad one, at least one half.

the wood, or, as is frequently the case, a worn out saw-mill saw is substituted for the bar. The tongue or neap is put into this scraper in such a manner that it passes in a quartering way over the road, filling the ruts, and throwing out whatever obstructions may exist. The change in ease of travel from a district in which one of these scrapers is owned and used, to one where they are unknown, is as great as from the rough and maddy roads too common in the country to the paved streets of the city. the city.

## Ag. Books and Periodicals as Premiums

Ag. Books and Periodicals as Premiums.

We are much gratified to perceive that the suggestion made by us as to the propriety and usefulness of substituting agricultural periodicals and books for the smaller premiums offered at our agricultural fairs, instead of the cash, has been so favorably received and promptly acted upon. We cannot doubt that the best effects will result from the practice. For years, the State Agricultural Society of Rhode-Island. (and perhaps it does at present.) ordered annually several hundred copies of the New-England Farmer, for distribution in the several towns of that state, and experience has proved that the money so employed was most usefully expended. From almost every quarter, in the spirited organizations and preparations making for the fall fairs, we perceive this principle has been engrafted, and with the most auspicious promise. From 10 to 50 volumes of the Cultivator have been offered by many societies; and the La Porte Agricultural Society, which is setting a noble example to the west, has considerably exceeded the latter number. Other valuable journals, and agricultural books, are, we are pleased to perceive, not for gotten. gotten.

### Butter Dairies.

Butter Dairies.

In a large part of our country, the business of the dairy is now, and must be so hereafter, an important part of the occupation of the farmer, and the best methods of conducting it, are consequently highly deserving attention. Holland has long been famous for its butter, immense quantities of which are made for exportation, and the advanced price it commands in every market, as well as its fine flavor and consistence, shows that its character is deserved, and not the result of accident. In the Journal of the English Agricultural Society, is an article on the Rural Economy of some of the districts of Holland, particularly that of Holstein, in which an instructive account of the Holstein mode of making butter is embodied. From it we shall select a few facts, illustrating their methods of producing such superior butter.

The dairies, which are usually large, varying from 100 to 400 cows, are provided with buildings and accommodations on the same scale, and with particular reference to the intended results. Of these, the milk cellar is the most important, and in the size and site of this the greatest care and skill is shown. Where practicable, it always fronts the north, and in addition, is shaded with rows of trees, and furnished with a projecting roof, in order more effectually to protect the building from the sun. It must always be sufficiently large to contain the produce of four milkings. The floor on which the milk is set is sometimes flagged, but more usually of brick, nicely fitted, and the whole slightly inclined, that no water may lodge on them. This floor is washed and kept with the neatness of a parlor table. In some instances this floor is divided into compartments, with brick or stone ledges three or four incheshigh, and these compartments, filled with water from a pump, receive the dishes or pans, and preserve them at a temperature that secures the best and greatest amount of cream. The milk cellar is sunk about four feet in the ground, and the height is sixteen or eighteen feet. The ner side of which gauze frames are fixed, to exclude sects when it is necessary for the purpose of air or coolness to remove the sashes.

When cheese as well as butter is made at the dairy,

opinion we think they would estimate the difference in their favor between a good road and a bad one, at least one half.

In making roads, the common practice of scraping up the muck or surface earth into a narrow ridge only wide enough for a single wagon, is of necessity a bad one. The track is soon cut down into the soft materials, water is retained, and deep mud and hard roads are the result. If a part of the labor spent in laying up the roads, was employed in covering the track with gravel, there would be better roads and far less labor in repairing.

It is the custom too, in making or repairing roads, to expend all the labor assessed in the several road districts at once, and generally in the early part of the season. June is perhaps the best month for repairing roads, but some labor should be reserved to make any repairs that accident may render necessary. Often after the tax is worked out, a bridge, or some part of a road fails or is damaged, and it too frequently happens it remains so, perhaps for the season: dangerous to every traveler, and a nuisance to the public.

Every district, or nearly every one, is provided with a common earth scraper, but there is another scraper equally if not more essential to good roads, with which few road districts are as yet provided. This scraper is for leveling the surface of the road, cleaning it of all stones, and filling all the ruts made by the wagon wheels. It is made with a stick of timber twelve inches wide, and six feet long; on the first all stones, and filling all the ruts made by the wagon wheels. It is made with a stick of timber twelve inches with a stick of timber twelve inches as substances of milk and butter, which substances of milk and butter, which suffer to a degree, those unaccustomed to observe it, little suspect, from an impure atmosphere."

The dairy is managed by women, of whom there is the very eighteen cows. There is beside, the owner, or overseer, and one or more men who attend to the coving for the same thanks and the every eighteen cows. T

commences at four in the morning, (the milkers rising at three,) in the field, and the milk is conveyed to the dairy by a one horse wagon from hooks, in which large vessels are suspended. To prevent the milk from flying over the brim of these vessels in moving the wagon, thin pieces of wood, of nearly the size of the vessel, float on the milk, and this practice is adopted when pails are carried by the hand.

The effect which vessels made of different materials has on the promoting or retarding the acidity of milk, has received much attention in Holland; and the connection which this process has with electricity has been more fully investigated than elsewhere. The liability of tin to rust renders it objectionable; zinc has scarcely been tried, but fears are entertained that injurious properties will be communicated to the milk; great care is required to keep copper tinned; and the vessels most generally preferred on all accounts, are shallow wooden keelers, holding about eight quarts. In some few instances glass vessels are used, and some of the reports speak of them highly. As glass is a nonconductor, it is to be expected the influence of electric causes will be less on glass than most other substances. It has been found that cream, to make first rate butter, must be removed from the milk before the latter gets at all sour, and that the cream will not fully rise under thirty-six hours; to prevent souring before that time, especially in sultry weather, or during thunder storms, requires particular attention to temperature.

A cellar temperature of from 60 to 62 degrees, gives

rise under thirty-six hours; to prevent souring before that time, especially in sultry weather, or during thunder storms, requires particular attention to temperature.

A cellar temperature of from 60 to 62 degrees, gives the best and the most cream, the rising being completed in 36 hours; a greater degree of warmth hastens the process, but lessens the quantity of the butter; a lower temperature preserves the milk 43 or 60 hours, but imparts an unpleasant flavor to the cream and butter. The commencement of souring in milk is marked by a slight wrinkling of the cream, and a slightly acid taste. When this appears, whether the milk has stood a longer or shorter time, skimming commences. As fast as it is collected, it is poured through a hair seive kept for this purpose alone, into large barrels of 240 quarts each, in which it remains till the necessary sourness is attained, which in summer usually takes 24 hours, and in winter 36 or 48 hours. During this advance to acidity, the cream is frequently stirred to prevent its coagulating, or becoming cheesy, and when fit for churning, the skill of the dairy woman is required to determine the proper temperature to make good butter. In warm weather the churn is rinsed with the coldest water, and if necessary cold spring water is added to the cream, but if the cellar is properly made, this is rarely necessary. In cold weather the churn is washed in warm water, and is sometimes applied to the cream itself. The churning being completed, the butter is immediately carried to the butter cellar, where in a large tray or trough made of beech or oak highly polished, and provided with a plug at the lower extremity to let off the milk, the butter is slightly worked and salted with the purest salt, moldel with a ladde into a mass at the upper end of the trough, and left for some hours to drain. In the evening it is thoroughly kneaded and beat, the dairy maid lifting a piece of 3 or 4 pounds, and slapping it against the trough with great force, to beat out the milky particles. After t

site to fill the barrel is obtained.

"The qualities of first rate butter are considered to be 1st, a fine yellow color, neither pale nor orange tinted; 2d, a close, waxy lexture, in which extremely minute and perfectly transvent beads of brine are perceptible; but if these drops be either large, or in the slightest degree tinged with color, it indicates an imperfect working of the butter; while an entirely day, tallows appearance, is equally disapproved; 3d, a fresh, fragrant perfume, and a sweet kernelly taste; 4th, good butter will above all be distinguished by keeping for a considerable time, without acquiring an old, or rancid flavor.

"The quantity of food which can be afforded to the cows during winter, is determined at the beginning of the season, when the harvest returns are known; and in plentiful years the calculation is, that each cow shouldbe allowed three sacks of grain, cenerally oats, at 140 pounds the sack;) 3600 pounds of straw, including bedding or litter for the stable, and 1,800 pounds of hay deducted, she must receive twenty-five pounds of grain more, and vice versa."

of fresh cheese, 14 pounds of buttermilk, and 764 pounds whev, where cheese is made. Fifteen quarts of milk whey, where cheese is made. Fifteen quarts of milk are considered a fair average for a pound of butter, though sometimes a cow gives milk so rich that 12 quarts make a pound. "On the whole, it is considered a fair return from the Holstein dairies when the produce amounts to 100 pounds of butter and 150 pe of cheese per annum to each cow."

## etter from an English Correspon

Below will be found an extract of a letter from John Hannam, Esq., North Dighton, Yorkshire, which may not be uninteresting to some of our readers. Mr. Hannam, is one of the ablest writers as well as farmers in England, and his contributions to the Quarterly Journal of Agriculture, are always valuable. Of his last communication, (on the proper period of harvesting wheat,) a condensed view is given in the "Work for the Month." In common with the liberal and enlightened of every country, Mr. H. takes a deep interest in the cause of agriculture every where, and his kind expression of good will conveyed to us, will meet with a hearty response from every American farmer.

North Deishton, Wetherby, Yorkshire, April 17, 1841.

ened of every country, Mr. H. takes a deep interest in the cause of agriculture every where, and his kind expression of good will conveyed to us, will meet with a hearty response from every American farmer.

North Deighton, Wetherby, Yorkshire, April 17, 1841.

Gextlexax—Your polite favor came to hand yesterday, for which I beg you will accept my best thanks. That any effort of mine for the spread of agricultural science, should exhilie me to the notice of those who are devoting their energies to its cultivation in a country so far distant as America, I do not for a moment imagine, and for this reason it is that I feel it as a compliment. But it is not as a personal compliment that your communication gives me greatest pleasure, nor is it for the communication gives me greatest pleasure, nor is it for the communication of the communication of a spirit of citizenship (if I may use the term,) in the cultivation of a spirit of citizenship (if I may use the term,) in the cultivation of agricultural science. And, in deed, it is only by an encouragement of this spirit, which regards not the boundaries of nationality, and confines not its exertions to either 'New or 'Old' World, that knowledge can ever be surely promoted, or that agriculture can ever be what it ought, an universal science, as perfect in its principles as it is profitable in its practice. That it is entitled to consideration as a profitable science, none I think, can deny; for of all sciences it is the only one which can be fairly said to produce or create wealth. Such, however, it does; and the nation encouraging it is encouraging the very means which will best increase its wealth. That it ever will become as perfect in its practice. That it ever will become as perfect in its into which the property of the part of the property of th

I must say (and I am not ashamed that it is so,) my zeal in the gellow color, neither pale nor orange tinted; 2d, a close, and a serve there were no farticulture is greater, than my ability. As brother parent beads of brine are perceptible; but if these drops be either an imperfect working of the batter; while an entirely dry, tablows appearance, is equally disapproved; 2d, a fresh, fragrant and imperfume, and a sweet kernelly taste; ath, sood butter will above all be distinguished by keeping for a considerable time, without acquiring an old, or rancid flavor.

"The quantity of food which can be afforded to the cows during winter; is determined at the beginning of the "eason, when the harvest returns are known; and in plentiful years the calculation is, that each cow should be allowed three sacks of grain (centrally out, at 160 pounds the sacks) 3,500 pounds of favire.

During the winter the requisite color is given to the butter by some coloring material; and the best for this purpose is found to be a mixture of annatto and turmeric, in the proportion of 5 oz. of the latter to one pound of the form er.

The average quantity of milk from the Holstein cows, is about 2,500 quarts per annum; much depending on the food and care; and it is calculated that every 100 pounds of milk will give 34 pounds of butter, 5 pounds

ly moving the earth around plants, will prevent for a considerable time the necessity of watering, as is seen in the case of corn that is hoed resisting the effects of drouth much longer than that which has not been so

The Wheat Crop.

The Wheat Grop.

The following is an extract of a letter from Gen. R. Harmon, Jr., of Wheatland, one of the best wheat towns, as Gen. H. is one of the best farmers, of Western New-York. As some of our readers may wish to obtain seed wheat from that section of the state, we would inform them that they may obtain a superior article by applying to Gen. H.

"Wheatland, N. Y., July 17, 1841.

"As there is much anxiety on the coming harvest of the great staple of Western New-York, I will venture to give my views. In March, when the snows went off, wheat looked as well as common, if not better; the mouth of April, and the first half of May, was wet and cold, so much so that wheat gree but very little; from the middle of May till the last of June, we had no rain; the weather was uncommonly warm and dry; but for the last three weeks we have had frequent showers. When the lot and dry weather commenced, wheat started rapidly and began to shoot up the stalk before it had spread but little, which has reduced the number of heads from each stool from onsfourth to one-third less than the common number, and the drouth was so severe that some of the stalks seemed to dwindle and nearly perish; but when the rain came on, they revived, and have put forth heads, so that it is ripening more uneven than I have ever known it. If the rust does not affect it, it will ripen more rapidly and give a smaller berry than usual. It is feared, however, it will not escape the rust. Wheat ripening after the 20th of July, is very subject to be affected by the rust, and there will be but little that will be fit to cut by that time. Some of the most favorable side, we cannot have more than three-fourths of a crop.

"The wheat worm has not made its appearance this season. The fly or insect, has done more injury this season than common. I have some white May Virginia wheat that I commenced cutting on the 18th; it has been injured more by the drouth than the white Flint. The Tuscan with me has not sustained itself through the winter as well as the Flint

The Toad.

"What is the use of toads?" is a question we heard asked the other day, with an air of triumph which indicated they were animals of which nothing good could be said. We do not think so, for though not to be classed among the most beautiful of animals, the toad has cersaid. We do not think so, for though not to be classed among the most beautiful of animals, the toad has certainly many redeeming qualities, and which should save him from wholesale condemnation. In the first place he has the most beautiful eyes in the world, (were it not that the charge of partiality might be preferred we would except those of some half a dozen of our lady friends;) and in the second place he has a wonderful facility of stowing away, in that carbuncled body of his, all ants, flies, worms, bugs, &c. that may come in his way, during feeding hours. He does not eat the less because people rarely see him eat, and he clearly prefers flesh to saw-dust or bran bread. The tongue of the toad is a curious contrivance. It is long, attached to the fore part of the lower jaw, and folds back upon the opening of the throat. When the toad approaches a worm or other insect, there is a slight motion or nod of the head and the insect disappears. The tongue has been thrown forward, and the insect adhering to its surface is swallowed instanter. That he "sucks poison out of the earth," is a fable to be classed with the influence of the moon, or the doctrine of transmutation; yet as he certainly does good service as a destroyer of insects, he deserves all reasonable protection. nsects, he deserves all reasonable protection.

## Old Lime Plaster on Wheat.

A writer in the Farmer's Gazette says he sowed two pieces of spring wheat after brining and rolling the seed in slaked lime. On one of these fields he sowed or spread a number of loads of old plaster from the walls of old houses, and harrowed it in with the seed. Both fields were entirely free from smut, which that year was generally ruinous to wheat; but the wheat of the field where no lime was used, (except for rolling the seed.) was badly shrunk; while that which grew on the field, well sprinkled with old plaster, was good, sound, plump wheat. plump wheat.

DICTIONARY OF TERMS

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GAUREN. Gerlen are of general tasks, we the second and the s

the mare and the cow, very great deviations from the average time occurred, amounting in the extreme to nearly two months. In the case of sheep and swine, the deviation was less, but still considerable. The times stated above are the averages of the whole; and will probably be found as nearly correct a guide for the breeder of these animals as the circumstances will admit.

## WORK FOR THE MONTH.

## Stacks and Barns.

Stacks and Barns.

A large proportion of our farmers make their hay in July, but still much hay is made in August, and it is a good plan for those who have already completed their hay harvest, to examine their stacks and barns, and see that all is right with them. There is always more or less warm air generated in a barn filled with new hay, and unless this air, which rises to the highest part of the building, is permitted to escape freely, it accumulates and adds to the danger of the hay suffering from heating improperly. Small windows in the gables of barns, to be removed while the barns are filling, and replaced when the heating process of the hay or grain is over, are to be preferred to holes cut in the boarding, as these admit the entrance of birds and vermin, both of which should be excluded from such buildings. The making a good stack, one which shall tretain its place perfectly, one which shall turn all moisture, and preserve the great body of the contents as safely as in a barn, is a task which few farmers understand, or are able to perform successfully. It does not look workmanlike to see a stack of hay or grain with as many rails placed around it for braces as there are points to the compass, each lifting, as the stack settles, a part of the outside, and turning the water as it falls, into the stack, instead of conducting it down the outside. A little more care would remedy this evil, and make the hay or grain in the stack as safe from the weather as that in the barn.

Harvesting Wheat.

In our latitude, as haying is the great business of July, harvesting is the most important labor of August,

Harvesting Whoat.

In our latitude, as haying is the great business of July, harvesting is the most important labor of August, and one which requires the utmost attention of the farmer. Such an extent of latitude does our country embrace, that harvesting of wheat lasts from June till September, commencing in Georgia in the first named month, and ending in the Northern States in the last named one. Four-fifths of the wheat grown in the United States is, however, cut in the months of July and August, and much the greatest proportion is harvested in August. The period of harvesting grain of all kinds, is much influenced by the time of sowing; other things being equal, early sown grain always coming to maturity soonest, and being also generally much less liable to the attacks of insects, disease, &c. The heat of the climate and the impossibility of preserving wheat from the attack of the weevil when stored in granaries, obliges the southern farmer to harvest his wheat, and thrash and dispose of it as soon as possible. Hence southern wheat and flour is always found in the northern markets, long before the harvest here is closed, or, perhaps, even commenced.

Proper Time of Cutting Wheat.

## Proper Time of Cutting Wheat.

Proper Time of Cutting Wheat.

The period of maturity most proper in every respect for the cutting of wheat has long been a subject of discussion. So long as wheat was thrashed by hand, it was found necessary to let it ripen fully, or the loss in thrashing would exceed the gain from any other source; but since machines have been generally introduced, this difficulty has passed away, and the question placed on other grounds. It is now, how does early cutting affect the weight and quantity of grain and the quality of flour, as compared with that harvested at a later period? Many experiments have been made to test and settle this matter, but the best and most satisfactory we have seen, are those detailed in the last No. of the Q. J. of Agriculture, made by Mr. Hannam, of Yorkshire, an intelligent and able farmer. Mr. Hannam selected for his experimenta field of the old square headed red wheat, and on the 4th of August, 1840, cut a sheaf. Both straw and ears were green and full of sap. The grain was perfectly formed, but the chaff adhered firmly to it, and it was so soft and full of milk, that the slighest pressure reduced the whole to a pulp. This sheaf stood in the field a fortnight, when it was housed, and the same day, August 18th, another cut. In this the wheat was not ripe, but what is called 'raw.' The straw for a foot from the ground was yellow, and above that, though to appearance green, still was turning yellow. The grain, though still soft and mashed easily, was not near so full of fluid or milk as before. At the end of a fortnight this sheaf was housed, and September 1, or the same day, another was cut. This last sheaf was ripe, the straw uniformly yellow, but not so ripe as to have the heads break, or grain fall out, and at the end of a fortnight this was also housed. Each sheaf was carefully preserved, and finally thrashed and the chaff separated, by itself. The gross weight was ascertained by an accurate balance, as was shatof a fixed measure, and an equal number of the grains. The result was as foll

Time of	Gross	Equal	Equal No.
cutting.	produce.	measure.	of grains.
Aug. 4th, (very gr		568	197
Aug. 18th, (raw,)	736	590	231
Sept. 1, (ripe,)	659	870	22]

100 straws of an equal length were then selected from
each of the bundles, and weighed as follows:

	****		,	0		
Gree	n	 	*****	 	 	**** 850
						478
Ripe	,	 	** ****	 ******	 	450

To ascertain the actual value of each quality, sam ples of each were exhibited to an extensive wheat grow er, and then put into the hands of a factor and miller to know what they would give. The opinion of the grower and the miller was as below:

Value per quarter the miller. Value per quarter by the wheat grower.

It appears from these experiments that the "raw" wheat had the advantage over the "ripe" in every re-

......£11 11 10

Green, £11 11 10
Raw, 13 7 8
Ripe, 12 17 8
Our readers will judge of these experiments for themselves; but we must add, there are other considerations of great weight in favor of cutting wheat before it is "dead ripe." These are, more time for securing the crop; less waste in harvesting from the shelling of the grain; and a better quality of straw, a thing of no small consequence where it is as extensively used for feeding stock, as in our wheat growing districts. It is also the opinion of millers, we believe universally, that early cut grain makes far better flour than that which becomes fully ripe before cutting. It is probable the same facts would hold good of barley, rye, oats, &c., and it would seem desirable that farmers should ascertain these points, as small profits, or small losses, in the aggregate, are the things that make, or ruin, the cultivator of the soil.

There is a great waste by many in harvesting grain from using bad implements, not paying attention to putting it up properly in the field when cut, and performing all parts of the work in a slovenly and unfarmerlike manner. There is a vast deal of wheat and other grain, put into the barn or stack after rains, or before the straw or green matters the sheaves may contain are cured, in such a state that the central parts of the sheaf heat, mold, and become nearly rotten. The result is bad wheat, musty and poor flour, all which might be avoided by care in the several processes through which the crop passes.

## Preparation of Seed Wheat.

Preparation of Seed Wheat.

The time to procure pure seed for fall sowing, is to make your calculations as to kind, quantity, &c., before your wheat is ripe, and then from your field select a part that will yield what you wish, and by repeated careful examination, free it from every thing that is not wheat. Wheat may be made pure in this way much more certainly than in any other, and we know many farmers who find their account in this method, not only from the almost perfect immunity it gives them from weeds, but in their sales of seed wheat at higher rates, owing to the superiority of the article. No seed is fit to sow that has been injured by heat in the stack or mow. The injury may be but partial, still the young plant will feel the effect, or it may prevent the growing of the grain altogether. We believe that it may be considered a settled point, that all seeds should be thoroughly matured to give perfect vigorous plants, and that a neglect of this, will always produce loss to the farmer. We have known two ways which have been adopted successfully to procure the best of the wheat for seed, and as the trouble is not great, farmers who use but small quantities of seed may find their account in trying one or the other. The first is what is called casting the seed. In this method, the farmer casts his wheat, a handful at a time, some thirty feet, or the length of his barn flour, and that which goes the farthest, being of course the plumpest and heaviest, is to be reserved for seed. In the second method, the sheaves of ripe wheat are struck across a barrel or log, something in the manner of threshing flax, rather lightly, and as none but the ripest and best wheat will in this way be shelled, it gives a good seed. There is too little attention paid to seed wheat generally, the best not being selected, or its tendency in the hands of the ordinary farmer to degenerate, not being counteracted by change of seed.

Weeds in Pastures.

Some farmers seem to suppose that if they keep the weeds subdued in the growing crops, they have performed wonders, (and too many have reason to congratulate themselves if they do this.) while all kinds of nuisances in the shape of weeds disfigure and overrun their pastures. But thistles, milkweed, everlasting, john's-wort, sweet elder, &c. flourish undisturbed, and fill the earth with seeds or roots in readiness to spread and grow whenever the earth is moved for their reception. No plant not wanted on a farm, or not required in a course of cultivation, should ever be allowed to perfect its seeds on any part of it; if they are, the far-

mer will find to his sorrow, that he has suffered an enemy to steal a march upon him, one which it may require much time and labor to subdue. Allow, then, nothing to go to seed on your farm you do not mean to cultivate; dig them up root and branch, or if this is not practicable, take your sythe and cut them at once. Don't wait for the moon or for signs; but what it is necessary to do, do it without delay.

As far as possible, every farmer should save his own seeds. If he is careful and selects none but the best, if he gathers them at the proper time, he is more sure of their kind and quality than if he purchases, or, as is too frequently the case, begs them, and is, of course, less liable to failures and disappointment in his crops. There are many small seeds, such as are wanted for the garden, herbs, roots, vegetables, flowers, &c. which should be saved as they ripen, and are nearly always wanted and welcome when the seasons come round. No vegetable or plant should be selected, or planted out for seed, that is not of the best quality, as it costs no more to raise seed from a good plant than an inferior one.

### Inoculation.

Cherries, plums and pears may be inoculated or budded with success in this month, unless, as in some instances may be the case, the trees are too far advanced. This may easily be ascertained by examination, and it must be remembered, that the later in the season this operation is performed, if the bark will but peel, the more certain will be the growth of the inserted bud. Inoculation is one of the easiest and best methods of improving fruits, particularly some that will not readily bear grafting, and should be practiced by every farmer and orchardist whose fruit is not of the best varieties.

Early Sowing of Whent.

## Early Sowing of Wheat,

Early Sowing of Wheat.

We do not approve, as a general rule, of sowing wheat in August. There is usually too great a heat in the ground for it to vegetate freely and quickly, which is essential to the perfection of any plant, and if the sowing is followed by a drouth, a large part of the seed will never grow at all. The wheat plant is one which at no period of its growth requires or can endure a high temperature, and should the seed sown in August even sprout, the extreme heat and dryness frequently experienced in the month, will be unfavorable to its vigorous growth. Where much land is, however, to be sown, it may be advisable, or even necessary, to begin earlier than would be justifiable under other circumstances. We consider seed put in by the middle of September, more certain of succeeding than if sown by the middle of August; later than the middle of September, the probability of a good crop grows constantly weaker. Exceptions to this rule, arising from the peculiarities of the soil, weather, &c. may occur, but the experience of the best wheat growers will confirm its general corretness.

## Weeds in Corn.

Farmers generally hoe their corn some two or three times in July, and then it is left for the season. Now, as corn and some other hoed crops are frequently cultivated for the purpose of cleansing the land and fitting it for other crops, it is well where weeds exist to look over the corn during this month, and either pull by hand or cut with the hoe, such weeds as may have escaped previous hoeings, or sprung up afterwards. If allowed to grow and go to seed now, much of the advantage expected from the cultivation of the hoed crop will be lost, and the succeeding crop of spring grain materially diminished in value. As cleansing crops, hoed ones are excellent; but to experience their full value, the soil throughout the season must be kept clean. Better not plant and hoe as much, than to not more than half perform what is undertaken.

## Selling Stock.

The drover and butcher will now make frequent calls upon you, and if you have any extra nice animals, any sleek and smooth cattle, any lots of fat wethers or ewes, or good lambs, they will, with your permission, be sure to select these, and leave the raw-boned and hard to keep, the small, poor, and inferior on your hands. They are not to blame for this, for in doing this, they doubtless consult their own interest; but the farmer who allows it, much mistakes his interest, as no extra price will compensate the loss that is sure to ensue where this course is followed. Unless you have animals that will be no better for keeping, and some that you wish to sell, you had better make your own selections, and sell at moderate prices. You can in this way be constantly improving, instead of running your stock down, and it would be well for the farmer to remember that choice animals are always sure of a sale at fair prices.

## ORIGINAL COMMUNICATIONS.

"In Agriculture, Experience is of great value—Theories of little, excepting as they are directly deducible from actual experiments and well attested facts."

## INTERESTING LETTERS.

We are indebted to the REV. DR. SPRAGUE of this city, for We are indebted to the Rev. Dr. Sprages of this city, for copies of two letters, one on the origin and history of Indian corn, written by T. Pickering, Esq. to S. M. Hofkins, Esq., and the other on the prevention of the caterpillar and canker worm, by H. Marchant, Esq. They will no doubt be interesting to our readers. We must beg leave to dissent from the opinion advanced by Mr. Pickering, that corn was indigenous in China, for the following reasons:—lst. There is not a particle of evidence that Zeu mays, Indian corn, was known in any European country till after its introduction from America; this fact is admitted by all. 2d. There is no reason to suppose, had corn been indigenous and of general cultivation in China, that it would not have, long before the discovery of America, found its way to the west of Europe, as other plants and fabrics, clearly of Asiatic origin, certainly as other plants and nabries, clearly of Assace origin, certainly did; for instance, silk and rice. As soon as it was introduced into Europe, after the discovery of America, it made the circuit of the Eastern continents with astonishing rapidity, and, wherever it can be cultivated, across the continents of Europe and Asia, from France to China, has become a generative of the continents of the continents of Europe and Asia, from France to China, has become a generative of the continents of the c Europe and Asia, from France to China, has become a gene-ral favorite. 3d. The universal and rapid spread of Indian corn through Europe and Asia has a parallel in the intro-duction and spread of the cereal grains in this country from the old world. We gave Europe and Asia corn and pota-tices; they furnished America with wheat, barley, and oats. And after a lapse of 200 years, it is no more strange to find corn in China, than wheat in Wiskonsan or at Bogota.

# Origin and History of Indian Corn. Salem, September 3d, 1824

Origin and History of Indian CornSalem, September 3d, 1824.

Dear Sir.—I have just received your letter of the 28th ult. requesting information concerning maize, or Indian corn, its history, culture, properties, &c. As your call is expressive of urgency, I lose no time in communicating what little I know, corresponding with your inquiries, and just as my recollection serves me.

Formerly, I supposed that maize was not only indigenous, but exclusively an American plant; and that from the new, it was carried to the old world—at least to Europe. I retained this opinion until, in reading Sir George Staunton's account of Lord Macartney's embassy to China, I found it was extensively cultivated in the northern parts of that vast empire. As they ascendend the Yellow River, and approached the region of Pekin, Sir George says they saw immense fields of Indian corn. But I do not recollect that he specifies any variety. The first thought which then occurred was, that on the supposition that America was peopled by emigrants from the eastern coasts of Asia, they carried the grains of maize with them. But why may we not suppose this plant to be indigenous in both worlds? especially when we consider its numerous varieties. Had maize been found in the vicinity of the only Chinese port frequented by European and American ships, (Canton) we might magine it was carried thither in those ships. You ask,

"Was it known to the ancients!" This is a question for an antiquarian, or a learned naturalist, to answer. I can only say that, a few years ago, in turning over the leaves of two octave volumes, written, perhaps fifty or more years ago, by a Reverend Mr. Dixon, of Scolland, (I forget his christian name) in which he professes to transcribe from all the Roman rustic writers, every thing valuable or curious in the husbandry of that nation, this extracts are accompanied with a translation) and in which are described all the species of farinaceous plants which they cultivated, I found nothing that bore any similar development of the fa

Anderson (I do not recollect in which of his works) states, as ascertained by the experiments of a French naturalist (I think Bonet by name) be true—that plants do not derive nourishment through the pores of the bark of the roots, but solely through their ends. I confess that I doubted the correctness of those experiments; and the more, because the present Thomas Andrews Knight, now president of the London Horticultural Society, and who, Sir Humphrey Davy says, has thrown more light on the vegetation of plants, than all preceding naturalists, speaks expressly of plants deriving their nutriment, in part at least, through the bark.

"How far north does the culture of maize extend?" It is raised in Maine—I believe, in every part of the state. But in the more northern parts, I presume they plant only the yellow, small eared kind, called Canada corn. It is mostly eight rowed, the rows and grains closely set. The Connecticut settlers at Wyoming would plant it in June, and obtain full-ripe crops. I have raised it in the neighborhood of Salem. It is valuable for late planting, and for a northern region: but neither in product nor flavor, is it equal to our larger yellow corn. I first heard the word "Tucket" corn, among the people at Wyoming; and I made then the same conjecture that you have done—that it was corn originally from Nantucket. That sandy island would naturally hasten the ripening of corn, and give it the habit of early ripening: just as a variety of Barley (called "rath ripe") in England, produced on their warm "chiltern" grounds, acquires a habit of ripening earlier than barley sown on richer and colder soils.

Thus far you have what my hasty recollections furnish on

produced on their warm "chilern" grounds, acquires a habit of ripening earlier than barley sown on richer and colder soils.

Thus far you have what my hasty recollections furnish on the subject of your inquiries. I will now add an extract from a book published in 1795, by the English Board of Agriculture, being the Report of a committee on the culture of potatoes, in which I remembered that some of the properties of maize were incidentally mentioned. It is from an analysis of the potatoe root, by George Pearson, M. D. and F. R. S. The experiments were made by him at the request of the Board of Agriculture.

The Extract. "The composition, or more properly the mixture of the potatoe-root, is, in many respects, similar to that of the seed of wheat and of maize. We are indebted to James Bartholomew Beccari, professor of chemistry at Bologna, about 70 years ago, for the important discovery, that the meal of wheat and maize contained not only starch, but a soluble mucilage or extract, and a glue of the same nature as animal matter. These three substances are only mechanically mixed with one another. The glue is not capable of the saccharine, vinous, or acid fermentation; but like animal matter, putrelies." Dr. Pearson says the meal of potatoes contains no animal matter. "The proportion of the animal glue of wheat," says the Doctor, "is stated variously, in different experiments; but the general mean result appears to be, that it is about one twelfth of the meal. To this glue is imputed the superior quality of wheat-meal for bread."

We have no varieties of Indian corn, other than are commonly known in the same latitude in your state. A yellow corn (of 8, 10, or 12 rows—chiefly of 8 rows), is most generally mixed; and the ears appear to me to be the same that the people at Wyoming called Tucket corn. Here and there a farmer raises a white flint corn, very like, color except on some parts of the ears of Mandane corn, brought to Washington by Lewis and Clark, and of which Mr. Jefferson gave me a few grains: it was not w

## The Cankerworm.

The Cankerworm.

Newport, Feb. 28, 1793.

Hon. Justin Ely, Esq.—I was the last evening favored with yours of the 14th inst. "It is with real pleasure I communicate to you, sir, the information I have had of the efficacy of quicksilver in destroying the canker worm, so destructive to our apple trees. Having been informed of an instance in which the trial had a complete effect, I was induced to examine into the facts personally. I waited upon the gentleman who had declared the success of his experiment:—A Mr. McCurrie, a gentleman who owns and improves a good farm on this island,—a man of good observation, an excellent farmer, and on whose credit the utmost reliance may be had. He had several orchard, but the one the experiment was made in was an old orchard of very large trees. Nine trees, he most central in the orchard, he bared with a spike gimlet about four or five feet from the ground, an inch and an half or two inches into the tree, rather slanting the boring downwards. He procured an onnee of quicksilver from an apothecary—half an ounce he inserted into o te of the trees, a quarter of an ounce he inserted into o tree to the trees, a quarter of an onnee he inserted into the trees a qualty as he could, he divided into five other trees. He then plugged up the holes tight. This was done, I think, in December. Some weeks after, he took out the plugs, and found the quicksilver in the same state he had put it in. He again plugged up the holes, and sometime after the sap of the trees had begun to ascend, he again took out the plugs and found the quicksilver was gone, leaving behind something like the slime of a snail. The worms came as they had done as ever they had been, and yielded their common plenty of apples, about one hundred bushels. The boughs of some of the riter wore an anongst them, appeared as though they had been fired. The trees with the least quantity of quicksilver were equally protected or preserved, as the one which had half an ounce. He inserted the quicksilver with a quill open at one end and t

ginning of February, for inserting the quicksilver." Perhaps credit might be given to the effect of such an experiment, by reasoning from the effect which mercury has upon the human body. But I leave that province to others, whose professions and abilities are more adequate to the undertaking;—ever preferring facts to theory, and that humble track to the labyrinths of fancy and imagination. At any rate, facts and successful experiments are most encouraging to the farmer, who ought to be lead by a certainty of success or gain, as too many can illy bear unsuccessful labor or expense. I have heard of an attempt of the like kind as the foregoing, made without success; but this was attributed to an improper time of inserting the quicksilver, viz. in June.

I have the honor to be, most respectfully, your obedient humble servant,

HENRY MARCHANT

## The Peach-Important Experiment.

MESSIS, GATICINE & TECKES—In the spring of 1837. I wrote to Judge Buel, asking him to join me in experiments on the Pach Tree with Sult Petre, and the proble of the treath through the medium of the Calidantor to the public. I gave as my reason for that request, that as far as my observations extended, I had always observed that on soils containing nitre and muriate of soda, the Peach tree sived huxuriantly to an advanced age, while upon soils immediately adjoining, immature decay takes place, and the tree seldom attains the age of seven years. As instances in vindication of this occur so frequently, I have been astonished to see them passed over without notice, and now advert to some of them to establish the ruth of this position. Peach trees growing in the site where once stood a dwelling, generally live to an old age, the soil of which, by analysis, will give a proportion of mirro. The same thing occurs in many districts of the West, upon one farm the occupant has no difficult of the standard of the standard sta

## Manufacture of Silk at Auburn.

Messes. Euroras—I forward you some memoranda on Agriculture and other kindred subjects, made during a recent visit to Auburn.

First, of the manufacture of silk in the State's Prison. I am one of those who have long entertained the opinion that not-withstanding the revenue accruing to the State from the carrying on of the common mechanical trades in the Frison, the principal is radically wrong. The common objection urged against it, viz. the injurious competition which it raises against our mechanics, though valid as far as it goes, weighs little in my mind, compared with its moral and social influences. Its moral effect is to scatter pollution into every work-shop in the size, by means of these discharged convict mechanics, who we lament to say, (though the fact is perfectly notorious), in a vast majority of instances, go out unreformed men. Every parent will judge whether such are fit and safe associates for their sons who are appreniced to mechanical trades. Its social effect is to sink down the mechanic in the scale of society—and form a line of demarcation between his occupation and that of others, who would deem themselves sulfied and district of the social effect is to sink down the mechanic in the scale of society—and form a line of demarcation between his occupation and that of others, who would deem themselves sulfied and disvoud our professional gentlements my the supposed that reputable and respectable men will continue to send their sons into occupations where they will econtinue to send their sons into occupations where they will econtinue to send their sons into occupations where they will econtinue to send their sons into the work-shops of the mechanic, will not mechanical trades sink into disrepute—become an occupation only for those not possessing the pride or the aspirations of republicans? But a truce to controversy. I have been hurried into this digression by feelings which are dispersed to the subject.

It was to obviate such objections, principally the first, that the experiment of attemp

of a pound
.... \$3 50
.... 60
.... 1 00
.... 30

\* Done principally in silk establishments by females. We stimate it by the price of convict's labor, calling it two days

rounded by no mystery, and required no particular skill; and that it required but a trifling outlay of capital. Mr. Morrison has fitted up a small cocoonery in the chamber of his house, where he is feeding 100,000 worms. The worms are entirely fed and managed by two little girls from 12 to 14 years of age. A boy of about the same age collects and brings the leaves. This is all the labor employed in the ecoconery, and Mr. M. thinks the children could take care of as many more. 100,000 worms, well fed, will produce 30 bushels of cocoons, or 30 lbs. of silk, worth, in its raw state, \$105. A smart girl, after three or four weeks of experience, will reel 1 lb. a day—which would swell the produce of 100,000 worms from \$105 to \$165!!

The expense of Mr. Morrison's cocoonery consists in a few shelves of planed boards set up on frames, all of which one carpenter could do in one day. The outlay for eggs amounted to \$10, and this need not, of course, be again incurred. Mr. M. thinks any comfortable barn or other outbuilding would answer the purpose, and that a crop of worms might be easily got along with before haying. What say our farmers to this? I confess my scepticism is "wearing off fast." I may as well here remark that any person who is desirous of obtaining further information, as to the manufacture of silk in the Prison, can obtain it by addressing the Agent, Henry Polhemus, Esq., post paid.

### Pine Cattle in Auburn and its Vicinity.

Polhemus, Esq., post paid.

Fine Cattle in Auburn and its Vicinity.

I cannot close, even at the expense of being a little tedious, without mentioning some of the herds of fine cattle owned in and about Auburn. That collected by Col. John M. Sherswood during the past season, comprises some exceedingly choice animals. Of the cows I noticed, four were from the herd of the late Patroon, Van Rensselaer of Albany. "Pansey 2d," is a nice, but rather a low-headed cow, and "Laura," heifer of two, is a beautiful animal, though not handling to perfection. Four of the cows were from the yard of Mr. Rorcus, of Otsego, though two of them were purchased of, and one of them bred by another gentleman, Mr. John Alexan-Der, of the same county. All of them with perhaps the exception of "Diantha," a yearling, are animals well "known to fame" amongst breeders. The old cow "Daisy," which thousands have een and admired in the yard of Mr. Rotch—a cow that has made her 16½ lbs. of butter in a week, and who has been the mother of a family of short horns, possessing as great an union of milking properties and hardiness of constitution, as any ever imported, has now a fine bull call at her side, by Nigel. It is an extremely promising animal. "Stella," a four year old cow, has all the dash and finish of Mr. Whittaker's yard, from which she is immediately descended. "Sylvin," a two year old helier out of the preceding, is a study for a breeder! She is about as near perfect as flesh and blood can be molded! There is a heier call too, "Nora," of which I should have something to say "in the same category," were it not for the fact that she was from my own herd. Of the three bulls, "Archer" is from the yard of Mr. Rotch, "Bolivar" from Mr. Van Rensselaer's, and "Newark" from my own. The two latter are yearlings. "Archer" is a magnificent animal.

A port of Col. S's bays soon carried us over to Skaneateles to see the herds of Mesers. WILLIAM FULLER, SILAS Gaylord that whoever attempts to beat "Rose" as a milker, with an animal of the same age wi

can say is, they look as if they would "answer the recommendation."

In the vicinity of Auburn and Skaneatelee, I noticed in the meadows of timothy a large quantity of dead heads, bleached out perfectly white. In some fields there were enough of them to occasion a serious diminution of the hay. I was told it was gencral throughout that country. The disease, or whatever it is, seems advancing from a southerly direction. It had increased for two or three years. On examination, the grass appeared to be dead down to the first, and sometimes to the second joint. For the space of half an inch immediately above the joint, the straw is shrivelled up within its sheath, as if the juice had been sucked out or suffered to escape by the puncture of an insect. The disease is u-uslly attributed to such a cause. Yours truly,

\*\*Cortlandville\*, July, 1841.\*\*

Good Medicine ron Hoos.—The American Farmer furnishes the following:—When your hogs get sick, you know not of what, give them ears of corn, first dipped in tar, and then roll-ed in sulphur. "Tis ten to one that it arrests the disease, and restores the pig to health.



Plan of a Meeting House-(Fig. 67.)

Plan of a Meeting House—(Fig. 67.)

Messas. Entrors—Would it be extraneous to the cause which your most valuable paper is engaged in, should I contribute to its columns the enclosed plan; a side and front elevation view of a Meeting House? Many useful drawings have appeared in your paper, among which are some good designs of dwelling-houses. If those plans are of importance to the farming community, as I think they are, not only in contributing to comfort and convenience, but also in appearance, is it not essential that the farmer, after the laborious duties of the week are performed, should have a comfortable and convenient place, where he may meet with his fellow-men, and with them unite in religious devotions? And should not the temple of the Most High be something more than a log cubin, where pecuniary circumstances will admit of a better? Even in this enlightened age, appearance has a vast influence on the mind of the spectator. Nature and art have been busy in decorating what is pleasing to the eve. Behold the sun, the moon, and the stars; the architecture of the firmment, the brook the rock, the tree, Nature's richest gifts; the more frequently we view them, the more beautiful they appear. Art has done much, very much, to relieve the eye from Nature's land-scapes. The ship on the ocean attracts notice by her symmetry of form and elegance of dress; the splendid palace, the costly carriage, and the gay saloon, they too have admirers; but what is more pleasing to the eye of the traveler, than well proportioned and handsomely finished Meeting House, of which I flatter myself, the attached plan is a fair representation? Your respectfully, JOHN CAIN. Rutland Vt., August 20, 1840.

## Qualities of Cattle, and Management.

Qualities of Cattle, and Management.

A part of the stock of a farmer must consist of cattle, and the maintainance of these, and their management, must even be an object of great consequence; and in proportion to the numbers which he keeps for sale, in addition to those which he employs on account of their immediate service and labor, the importance of the subject is increased to him. Whether oxen or horses for labor are the most advantageous, is an unsettled question. On some farms the situation is such as not to admit of a doubt but the ox may be the most beneficial. Bulls are on some accounts to be preferred to oxen, being procured at a cheaper rate, and more hardy and persevering in labor. In some cases the question would be decided differently; the activity of the horse is extremely superior to that of oxen, and it is more applicable to different species of employment; when dispatch is more required, than moderate absolute strength, as in loose sols in the operation of plowing, the quickness with which the horse completes the business, in comparison to the ox, will give the preference of the one to the other. When the team is kept to grass in summer, there is a gain in stocking with cattle over horses. The great injury done by feeding pastures with horses instead of oxen and other cattle, is an injury very material and obvious.

In the selection of the best breeds of cattle, many good.

of oxen and other cattle, is an injury very material and obvious.

In the selection of the best breeds of cattle, many good points will not vary materially from those which should be noticed in the selection of the force, sheep and swine. Short legged cattle are generally of a good quality, and are almost uniformly connected with a good make. Straightness of back is another important recommendation; when straight and brond, and flat on the loins, an experienced judge will more readily decide on their worth. If the carcase be of a barrel form both in the fore and hind quarters, it is good point of excellence. A curled and loose hide, handling mellow, is an indication of a thriving beast. Great notice should be taken of the breadth of the bosom, and between the fore legs, standing quite wide; much in buying is lost or gained by attention to this point; it implies not only good symmetry, but strength and speed; a good proportion of breadth of breast gives the wind, which is very essential to the working ox. At eight, nine and ten, they are going back in all their points, and in their value after seven; and no ox should be kept after eight years.

Steers should be yoked at two or three years old, and lightly worked, gradually increasing until four, when they may be

their value after seven; and no ox should be kept after eight years.
Steers should be yoked at two or three years old, and lightly worked, gradually increasing until four, when they may be full worked; they will attain a larger size than if they were un worked; their growth generally finished at six.

Heifers are generally allowed to come in with calf at two years old. The arguments in favor of bringing heifers in at two years old are, that they come sooner to profit, and are more apt to make good milkers. On the other hand the argument in favor of bringing them in at three years old is, that not being stunted in their growth, they make larger, finer cows than those that are suffered to bear colves at a more early age. A middle sized cow may afford as much neat profit as one of larger stature; much depends, however, upon keep; and the propriety of bringing heifers to milk at two years old, depends upon soil and situation. As regards the best season of putting cows to the bull for the object of milk and rearing of the calves, it is a point of importance to have them dropped as early as the month of April, as the season begins to be warmer. As the young grass begins to come

forward the calves can be reared with the least trouble and expense, and the cow is in season for the profit of the dairy. Young cows should be milked to near the time of calving, that they may the better hold out for milk as they advance in years; if allowed to dry up their milk early the first season, it will be quite unavoidable after,—but some regard should be had to the keep; those that have good keep may be milked to a much later period without injury, than those under the contrary circumstances. In twin calves, one being a bull and the other a heifer, the latter frequently has not the organs of generation, and I have known of cases where they both broke to the yoke together; the heifer being equal to the steer for strength and labor. They seem to partake more of the nature and form of the ox than of the cow.

In regard to the cattle of our own State, more particularly the western part, they are not less numérous in their varieties than those of foreign kinds. We have excellent native breeds, but that regard for the improvement of neat cattle has not been bestowed on them that has been in some of the other States, and not as much as would have been profitable to the grazier. But more attention has been of late bestowed on the breeding, rearing, and providing such sorts as are best suited to the nature of the farm or land on which they are to be supported. Those fine cattle which are found at the Brighton Market, called the "Lake Cattle," are reared in this section of the State.

SOLOMON W. JEWETT.

## Draining.

Massas. Gaylond & Tousan—I submit to your consideration, some of my views upon a subject which has been extensively examined in England and on the continent of Europe. Their views, however, have been adopted with reference to a state of things with them,—such as the price of land, labor, redundancy of capital, and many other considerations, differing so essentially from ours, that their adoption, to their full extent, in this country, may be considered of doubtful utility. I have desired to see this subject thoroughly investigated, with particular reference to our own condition; but if it has been done, it has not fallen under my observation. With these views, therefore, if my suggestions shall be found to vary somewhat from standard English authority, I beg that it may be considered as emanating from a desire, rather to suggest inquiries for those better able than myself, to examine the subject in this light, than from any spirit of controversy with systems which are probably well adapted to the state of things in Europe.

Two questions are necessarily involved in the subject:—

tems which are process; as a superstanding the subject:— Two questions are necessarily involved in the subject:— First, its utility—secondly, the mode of effecting it. To do jus-tice to either, it will be necessary to understand the different conditions in which water is found, and the manner in which it affects the soil. So far as my observation has extended, it may, with sufficient accuracy, be classed under the four fol-lawing heads:

First, its utility—secondly, the mode of effecting it. To do justice to either, it will be necessary to understand the different conditions in which water is found, and the manner in which it affects the soil. So far as my observation has extended, it may, with sufficient accuracy, be classed under the four following heads:

First—What is usually termed "surface water." Under this term I include both standing water and running streams, when their source is beyond the premises affected, as the mode of removing either is nearly the same, although they may and generally do affect vegetation very differently in many respects. Secondly—Subternanous ponds. These differ but little from those above the surface, except that they are filled with porous earth or a sufficient quantity of it to allow of a circulation of the water to every part of the bason. These subterraneous collections of water are evidently held in their position, by the same means as surface ones; an impervious under strata; and like them, rise and fail with the wet and dry seasons.

Thirdy—Springs. This term has commonly been used to indicate the point where a subterraneous stream breaks out upon the surface; but I use It in a more extended sense, as including all well defined subterraneous affects ones, having a serious bearing on the vegetable lington. They have their immediate water arrives, uninfluenced by the air, the sun, or any of the causes which fertilize the surface.

Fourthly—For the want of any more definite term to indicate the remaining condition in which water appears to the farmer, I shall call it a leach. Water is frequently found sluggishly leaching out upon sloping lands without any defined channel. These leaches are frequently of great extent and depth. This is the worst condition in which water is found, whether we consider the extent of its injury, or the draft which it makes upon the intelligence and patience of the dicher. Like springs, they have their immediate source below the influence of the air or surface heat.

This class

I come an intert and importance processing deciding on the process of the search to dry of from his least, to peri has the search of the search to dry of from his least, to peri has the search of th

lumbia, where, among other things, he cultivated thorn-sets for hedges, and tried every kind, both foreign and domestic, but gave a decided preference to that variety which he called the American maple-leaved thorn. None, however, have I ever known to succeed south of the District, nor very well even there. Mr. Solon Robinson's contemplated journey will be most joy-fully hailed, as I verily believe, by all the true friends of American husbandry, who read his letter in your June number. And should he succeed in the object of it, as I most sincerely and anxiously hope he will, he will better deserve the thanks of his country, than any man in the whole circle of my acquaintance. Mr. R. Jenkins, who recommends the soaking of peas before sowing them, 24 hours in urine, to make them "come forward early," should have added—"provided always, that the ground be very moist at the time of sowing." For all who dislike to be disappointed in making experiments, may take my word for it, that no kind of soaking, for any kind of garden seed, will be beneficial, if they be sown in very dry earth. The greater part of them will never vegetate, as I have several times proved to my cost.

The hint about "the importance of associated effort," I suspect to come from our friend Mr. Solon Robinson, and there are very few of us who may not justly condemn ourselves for tot paying more regard to it, than we every eth have done on the provides to will highly commend "associated effort," in general, but unite and speak against it in particular cases, even although they profess to wish success to those who are engaged in them, and so far these hauces to those who are rengaged in them, and so far these hauces to those who are engaged in them, and so far these hauces to those who are engaged in them, and so far these hauces to those who are engaged in them, and so far these really zealous, active friends counteract their own desires.

It would gratify me, and I presume many others, if Mr. C. Butler, of Piymouth, Ct. would give us an intelligibl

has become a very an immense number of small seed, and spreaus which an immense number of small seed, and spreaus which pidity, as it is a noli me tangere among all our domestic quadrupeds.

In your notice to correspondents, you very properly request them to "remember that as much directness and concisseness as is possible, consistently with the nature of the subject treated, is desirable in all communications, as you have room for nothing which has not a practical and necessary bearing on the great object for which the Cultivator was established,—the promotion of Agriculture."

Being somewhat long winded, and incontinently given to prosing on any subject that deeply engages my attention, I greatly fear that I may not have complied with your request to the extent of your wishes. Should this be the case, I beg you will not hesitate a moment to throw aside the foregoing cogitations as so much waste paper. This, I assure you, would break no squares with your friend and constant reader,

June 30th, 1841.

Commentator.

EDITIORS OF THE CULTIVATOR—In your February No. in a paper from J. M. Garrett, on the "Preservation of roots," I noticed the following: "Why those roots should always be destroyed when they freeze above ground, and not suffer equally when frozen under ground, is a matter of which I have never yet seen any explanation; it is among the numerous mysteries in vegetable physiology, for the cause of which we have yet to search."

Now regetable averaged in the cause of which we have yet to

seen any explanation; it is among the numerous mysteries in vegetable physiology, for the cause of which we have yet to search."

Now vegetables exposed to atmospheric transitions, necessarily are affected more suddenly in their temperature than those which are buried in the earth, yet subject to frost. It is a well known fact, that in the freezing of water, caloric or heat is given out, consequently in the freezing of the earth around the root, which is kept above the surrounding temperature by its own vitality, caloric is liberated, and, therefore, the root freezes more slowly. So in thawing, the temperature is increased more gradually, requiring several days to raise it above the freezing point, if the root be five or six inches below the surface, when, if exposed to the atmosphere above ground, as many hours, would produce the same result.

The extent of injury done to vegetables by freezing, does not depend so much upon the lowness of temperature, nor upon the length of time they are frozen, as upon their quick transition from one temperature to another. These facts apply particularly to the tuberous roots, and in a greater or less degree to the whole animal and vegetable kingdom.

Every root will be liable to injury by frost in proportion to its vitality; and the potate, of which Mr. Garnett was speaking, possesses this principle in an eminent degree.

In the native state, the tubers were very small; but then, as now, were intended as reservoirs of moisture, nourishment, and vital energy, which enables them to resist the injurious effects of cold to almost any extent, when not as suddenly applied, or, what is of much more importance, when the temperance in the manying, is not too quickly raised above the freezing point. Some of the spindle roots possess this property of vitality in a meah greater event than the potate, and some others.

If the experiment be tried, it will be found that the potato will not freeze below 27° or 28° of Fahrenheit; and unless it is proven that they freeze at 23°, the reasons h

## chingham, Iowa Territory, 1841.

Missas. Epirons.—As your valuable paper is devoted to the benefit of the fearming community, I avail myself of the means, by making an inquiry concerning smut in wheat, which appears to be different from the common smut. It generally grows from about six to sixteen inches in height; and the whole bunch that grows from a seed, is invariably smut; and on examination, I found that it blows similar to the sound wheat; but I also found by trial, that it will not germinate, but like noxious weeds, it is always restricted to the same spots in each crop of wheat, where it mostly stands as thick as the wheat itself; and it is also to be found diffused all over among the wheat. Last fall, I followed the recommendation in preparing my seed wheat, published in the Cultivator, vol. 7; page 130, and also sowed a different variety of wheat, but I find the result is the same as in previous years; the heads of the smut look like those of the variety that was sown.

If you, or any of your numerous correspondents, would give any information through the Cultivator, concerning the cause or preventive of it, it would confer a favor on the wheat growing farmers.

Williamsville, Erie Co. N. Y., July 7, 1841. Smut in Wheat.

or preventive of it, it would conser a lavoi on a farmers.

Williamsville, Eric Co. N. Y., July 7, 1841.

## Clarke's Silk Reel-[Fig. 68.]

Clarke's Bilk Reel—[Fig. 68.]

Massas. Gaylord & Tuchre—I wish to inform the public, particularly those interested in raising silk, through the Cultivator, that I have constructed and obtained a patent for a silk reel, which I now offer for sale, and which I believefor simplicity, for making superior silk and for saving labor, exceeds any other now in use, in this or in any other country. This reel was used by several persons in Connecticut the last season, and by some in the State of New York, and met with their entire approbation, as the certificates below will show. Many more, fully confirming them, might be obtained.

Greenwich, Ct. July, 1841.

AARON CLARKE.

Greenwich, Ct. July, 1841.

This may certify that I raised and had reeled the last season, nearly sixty pounds of silk of a superior quality. This silk was reeled principally by two young ladies, on a reel constructed by Mr. Aaron Clarke, of this town. The main principle of this reel, is the same as that of the Piedmontese. It spreads and crosses the thread on the reel in the same manner, and makes a skein of the same circumference, and has all the advantages of the Piedmontese reel, but is much more simple, less expensive, and is turned by the foot of the reeler; thereby saving the expense of a boy to turn. This, the young ladies who reeled for me, and who were experienced reclers, considered a great improvement. They said they could furn the reel for themselves with perfect ease, could make better silk, and more in quantity from a given number of cocoons, and reel more in a day than on any other reel they had ever used; and they had reeled on several different kinds of reels, and one of them on the genuine Piedmontese reel, but they both preferred Mr. Clarke's. The reason is, that they having the reel under their own immediate control, could reel with less perplexity than by having a boy to turn, and could make in an instant any accessary changes in the motion of the reel, which could not be done when the reel was turned by any extraneous power, but which was a great advantage, as it enabled them to reel with less waste, to make a thread more even and freer from burs. The aforesaid silk was reeled under my own observation on Mr. Clarke's reel, which I believe to be superior to any other now in use. By it, the tedious labor and expense of a boy to turn is saved, which, together with the advantages above named, equals, in my opinion, a saving of at least 50 cents on every pound of silk reeled.

Greenwich, Ct. July 20, 1841.

Greenwich, Ct. July 20, 1841.

I have examined the above certificate of Dr. D. Mead, and being fully acquainted with the facts set forth in favor of Mr. A. Clarke's silk reel, do fully agree with him in believing it to be the very best silk reel extant: and further, that if the silk growing business shall ever become established in this country, Mr.

Clarke's reel will probably supersede all other silk reels on account of its simplicity and other excellent properties.

White Plains, N. Y., July 20, 1841.

D. PALMER.

White Plains, N. Y., July 20, 1841.

The price of the reel is \$12. Any orders directed to the subsubarriber, the patentee, at Greenwich, Fairfield Co. Ct., will be immediately attended to, and reels sent on the receipt of the money to any part of the United States. The subscriber will also sell rights for States or Counties on reasonable terms. Reels may also be had on a short notice at the following places, viz.: Joseph Leeds, No. 2, Franklin place, Philadelphia. At the American Institute in the city of New-York, near the City Hall; at the United States Society of Science and Mechanism, No. 21, Courtland-at; at Dr. Porter's at the silk field, formerly Botanic Garden, near the Deaf and Dumb Asylum, where they are to be seen in operation. They can also be seen in operation at the following places, viz. Thomas Blackwood's, Princeton, N. J., at Baltimore, by applying to G. B. Smith, Esq. Secretary of the American Silk Society, at Rhoda Collin's, Bethlem, Ct., and at a number of places in Greenwich, Ct.

A. CLARKE.

Hossian Ply.

Election Fly.

Messes. Gaylord & Tecker—During the summer of 1839, the Hessian fly made its first appearance in this part of the west. The crop of wheat was a large one, and although the fly did us some injury, we still had wheat in abundance. The quantity of ground sown with wheat in the fall of that year was very great, and considerable anxiety,was felt in regard to the appearance of the fly, but we used no means to escape their ravages. As soon as the wheat was handsomely up that fall, we found that we had raised as many insects as spears of wheat; almost every spear containing from one to eight or ten insects within its leaves. They were found by pulling up the wheat and stripping off the leaf, where they would be seen attached closely to the stem near the ground. When first discovered, they were very small, like the point of a pin, and of a transparent white; they grew rapidly until they acquired about the size, form, and color of a "flax seed," and were attached so closely that a dent of nearly their size would be made in the stem of the grain. They did not appear to injure the growth of the wheat during that fall or early in the spring. It looked so fine, that until the middle of May, we felt in hopes of having abundant crops, but our hopes were soon gone. It appeared as if a new crop of insects had been brought forth appeared as if a new crop of insects had been brought forth appeared as if a new crop of insects had been brought forth appeared as if a new crop of insects had been brought forth appear to tally lost. It became at once evident to all, that we was all most totally lost. It became at once evident to all, that we want find some way to escape the fly, or give up raising wheat. The quantity eown last fall, was much smaller than for some years previous; and many plans have been used to escape the fly. The one most generally relied on is very late sowing. I have read all the articles I could find in the books on the subject, and watched the changes of the fly for the two seasons the subject to th

old correspondent, that good friend to the farmer, Solon Rob-inson, and he will I hope be prepared for them. Yours with respect, THOMAS W. WELLS. Marshall, Calhoun Co. Mich., March 24, 1841.

## The Peach Tree Grub.

The Peach Tree Grub.

Messes. Gaylord & Tucker—In the June No. of the Cuitivator, a correspondent inquires of the best mode to destroy or prevent the worms from injuring the peach tree. For many years I have preserved the few trees in my garden from the worms, by taking away some of the earth from the body of the tree, and putting fresh wood ashes in the place, and a little higher against the tree. When I performed this in the spring, May or June, and again in early autumn, September, the worms have not injured the trees; and the ashes have been a useful manure. The yellows is complained of at Poughkeepsie, New-York, and in New-England. It has not appeared here. The severe cold winters and the peach worm are the injuries suffered here.

Schenetady, June 28, 1841.

D. TOMLINSON.

## Improvement in Shingling.

Improvement in Shingling.

Messus. Gaylord & Tucker—It is known to every person of observation, that shingles composing the roof of a building, first give way around the nail, owing doubtless to the water penetrating by the nail hole. In the erection of a barn this summer on my farm near this place, it was a matter of some consideration with me us remedy this effect. I adopted the following simple, cheap, and I bolieve-floatious plan. I have mentioned it to a number of experienced workmen and gentlemen of judgment, and they coincide in one opinion of its advantages. I have therefore thought it a duty to communicate through the medium of your paper, that others may be benefited by its adoption. The plan is this. The workmen, when shingling, have a small tin cup suspended at their breast, by a string passing around the neck—into the cup is put a portion of white lead ground in oil, of the consistence as taken from the keg of the manufacturer; as the workman handles the nail, he dips the point into the white lead, to which a portion adheres; when driven, the white lead, to which a portion adheres; when driven, the white lead is forced up as the nail passes in, and completely fills up the hole, and the head of the nail is imbedded in the paint, thus preventing the penetration of the water by the nail hole, and the corrosion of the nail head. The pregress of the workmen is very little retarded by the operation. A keg of 25 lbs. will do for about ten thousand shingles. The same process will do for sideing or weather-boarding, and indeed in every instance where the nail is exposed to the weather.

JAMES L. BOWMAN-Brownsville, Pa., June 25, 1841.

## Simple Cure for Cough in Horses.

Two years ago one of my carriage horses had an extremely bad cough, which had continued for six or eight months; different applications were made without effect. I applied to a man who I knew dealt in horses, and had paid some attention to their diseases for a remedy. He at once told me that he had never found any thing so-effectual for a bad cough as human urine, given a few times, by discharging into a bucket of water and letting them drink it, or on their food and cat it. I directed my driver to do so, and in one week the horse was completely relieved. I have frequently had it tried with the same good effect.

J. L. B.

## Analysis of Grain, Roots, &c.

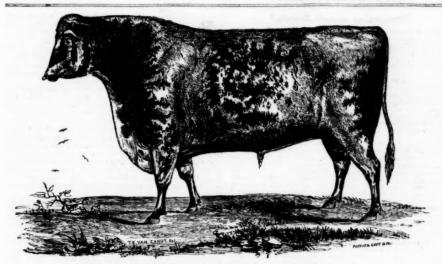
Analysis of Grain, Roots, &c.

We invite the attention of the reader, and of our scientific ones in particular, to the remarks of Mr. Garrett, in the annexed letter, on the subject of a chemical analysis of the principal roots, grains, grasses, &c., grown in this country, with a view of testing their comparative value for the purposes of nutrition. There can be no doubt that climate and soils have a very great influence in determining the value of plants for the purposes of food, and it has long appeared to us that a competent chemist could hardly perform a more acceptable service for the country, or one that would reflect more credit on himself, than by making an analysis of the principal Americas plants and vegetables cultivated for food. As Mr. Garnett has well remarked, the analysis of Sir H. Davy entirely omits some that are of the greatest importance to us; and though no analysis, and particularly that relating to vegetable physiology, has made such advances since Davy's time, and so many new matters have been introduced as subjects of culture, that a re-examination of his positions, and the analysis of the important plants omitted by him, seems very necessary and desirable. We hope some of our scientific friends will take this matter into consideration, and, if possible, add to the favors they have already conferred on the agriculturists, such an examination and analysis as the value of olunts demand. ready conferred on the agriculturists, such an examination and nalysis as the value of plants demand.

Myssas of evanue & Texas — It is well known to all farmers and gardeners that a great number of the plants which they entityste, will so mit together, if sown or planted near each other, as soon to lose their distinctive qualities, and materially to injure one another. Some of the species of each genus and all the varieties of the same species will thus mix, and it requires much labor and trouble to prevent it. Hence it is an inquiry well worth making, whether it would not be best for every farmer and gardener to dispense entirely, in its own case, with the culture of several of the varieties of each species,—If not with the culture of several of the varieties of each species,—If not with the culture of several of the varieties of each species,—If not with the culture of several of the varieties of each species,—If not with the culture of several of the varieties of each species,—If not with the culture of several of the varieties of each species,—If not the culture of garden peas, beans, water and musk melons, cucumbers, cymlins, pumpkins, cabbages, turneps, and many others which it is needless to enumerate. It is likewise true of the different varieties of grains, and other plants generally cultivated in the large way for revenue, as well as food for the plants of the control of the control of the plants generally cultivated in the varieties of grains, and other, but surely there can be none where all will suit equally well; nor can these differences of situation probably be so numerous, under the same parallels of aittude, as to constitute a majority of cases, and thereby make it necessary to continue every where to cultivate all the varieties of garden and crop plants now known to us. Seedsmen are interested in encouraging this notion, but no other persons.

For the control of the carry and late kinds which, for many years past, have been sold in our seed stores, and some of which, although very good, are no longer mentioned in their catalogues, I believe I may safely affirm that the nices palate cannot dis which the experiments were made, as well as of all otheres ential particulars. These communications would induce anny others to make similar trials, by which means we should libe soon able to ascertain what varieties each of us could nost advantageously cultivate, instead of having to depend, as nost of us now do, upon the recommendation of persons who save a peruniary interest of their own to promote by it. Hence also the fears of leception, which often attend the introduction of new, but high justeful plants,—new at least, in many extensive districts of our country. All this would probably soon be prevented by useful plants,—new at least, in many extensive districts of our country. All this would probably soon be prevented by our country. All this would probably soon be prevented by our country. All this would probably soon be prevented by useful plants,—new at least, in many extensive districts of our country. All this would probably soon be prevented by the extraordinary demand and the high prices given for them, which is easily accounted they will be made, in almost all cases, by persons having no time transmitted to recommend, if you would comply with it. This proposal to yourselves, which would great, by channet the value of such communications as I have ventured to recommend, if you would comply with it. This proposal to yourselves, which would great, by channet we value of such communications as I have ventured to recommend, if you would comply with it. This proposal in your elsewhere, an accurate analysis of the different roats and other plants which are food to our stock. The only thing of the kind which we now have, is, Sir Humbursel and the proposal to yourselves, which would great, you can be a proposal to yourselves, which would great, you can be a proposal to yourselves, which would great the proposal to yourselves, which would great the proposal to yoursel

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IMPROVED DURHAM BULL, NERO.-[Fig. 69.] Three years old, owned by E. P. Prentice, Esq. Mount-Hope Farm, near Albany.

## Feeding Cows, &c.

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Messrs. Eprrors—I observed in your May number, a reply to some inquiries as to the "best and cheapest manner of feeding milch cows." I would direct the attention of your inquirer to the use of oil cake, either by itself or mixed with other feed. I have used it myself to great advantage in both ways; and am persuaded it is one of the best (and taking results into account) one of the cheapest kinds of feed for cows at least; and perhaps also for hogs and sheep. On this point, howevever, I cannot speak from my own experience, but my neighbors who have tried it, speak well of it.

My own practice is to grind equal quantities of Indian corn on the cob, oats, and oil cake together, and give my cows a mess at night and morning while at pasture, and three times a day when not at pasture. I think it the best plan to grind the oil cake and break the corn and cob first, and then mix them all together and grind them. In this way they are more intimately incorporated together, and are better than if ground separately and mixed afterward. I have found that cows fed in this way will give from one quarter to one third more milk and of a much better quality, than if fed in the common way. I have made from one cow kept in this way, 25 ibs. of butter of very superior quality in the last month. One of my neighbors has used the oil cake meal with chopped roots (urneps, beets, &c.,) or corn stalks, and found it to answer a good purpose.

Much prejudice against it exists in the minds of some, from

of very superior quality in the last month. One of my neighbors has used the oil cake meal with chopped roots (turneps, beets, &c.,) or corn stalks, and found it to answer a good purpose.

Much prejudice against it exists in the minds of some, from a supposition that it makes the milk oily or of bad flavor; but this is a mere notion. I have known persons so prejudiced, so completely deceived with milk of cows fed upon it, as to assert that such milk could only have come from the best of pasture, and could not be from cows fed on oil cake. If fed wholly upon it, as is sometimes done to fatten cattle rapidly, I have no doubt that the milk would taste of it; as is the case with turneps and some other feed when used solely; but that it may be used very liberally not only without detriment, but with decided advantage, both as respects the quantity and quality of the milk, I am satisfied.

Again, the cost is objected to by some, as it is generally rather higher than other feed; but this is only true as regards its first cost; taking its effects into the account, it will be found considerably cheaper than other feed. Of this, I am further convinced by the feet that the demand for it in England is such, that the greater part made in this country is exported there, where it sells at a much higher price than it does here. I should say for the benefit of those of your readers who choose to try it, (and I hope a number of them will, and give us the result of their experience,) that cows when first fed with it, should be so more sparingly than those that have been accustomed to it, particularly if near calving; as it is sometimes injurious to them in large quantities at such a time.

I am glad to see that farm houses, barns, &c., continue to interest your readers so much. I hope you will be able to furnish us many more plans. Of those already given, there is much to approve; but the ne plus ultra of a farm house has not yet appeared. It would indeed require an amount of practical knowledge of farming and of architecture whi

## Landscape Gardening.

A desire to indulge in a passion with which I am strongly impressed, for practical improvement in Agriculture, and its hand-maid, Horticulture, and a desire to impress others with a like passion, induces the following remarks on a late publication, eminently calculated to confer great public utility.

Without puff, or any previous intimation that I can learn, there has just come forth from the press a desideratum—"A realise on the theory of Landscape Gardening, with remarks on Rural Architecture, adapted to North America, by A. J. Dowstog."

186.79

I presume the author of this beautifully written and beautifully executed volume, was much influenced by the laudable enthusiasm of doing good, for he leaves the book to make its own way to public favor and patronage. If merit can win favor, the publisher will have no occasion to call on his employer to make no deficiencies.

way to public favor and patronage.

way to publisher will have no occasion to call on his employer to make
up deficiencies.

If to do the work on a garden, to erect a building, to lay out a
plantation, it be essential to taste or profit, that it be done well,
it is clearly essential that the operator be skillful, be master of
the business he would undertake. Mr. Downing's work is the
true key to this knowledge, and the man who has but one acre
of ground will find his advantage in a careful perusal of this
work. How much more valuable must it be to the owner of one
hundred acres? This book is ornamented by a beautiful steel
eagraving as a frontispiece, and is interspersed with a large
number of well executed wood cuts of buildings, decorative
trees, as fit accompaniments to the dwelling-house, beautifully
laid out grounds, the formation of artificial waters, and the
flower garden, &c.

"In the sweet seented pictures, Heavenly artist,

wer garuen, ac. "
"In the sweet scented pictures, Heavenly artist,
With which thou paintest Nature's wide spread hall,
What a delightful lesson thou impartest
Of love to all!"

Of love to all?"

Throughout the work are given plain, pleasing, and occasionally fascinating descriptions and directions for executing the presented views.

It is an error in laying out and managing lands, as in almost all pursuits, to adhere rigidly to antiquated practice, as if every system was born in perfection and was incapable of improvement.

ient. It is a gross and lamentable error, to suppose that a few shil-ags or a few dollars expended in the purchase of books, is so such thrown away by those who already know all that is need-

lings of a lew units. In the content of the work of the work of the content of th

## Upper Canada.

Messes. Editors—As your valuable paper has a fair circulation in this Province, and as that circulation is rapidly increasing in this Township, you will perhaps devote a small space in its columns to make known to the friends of agriculture and the breeding of stock, that in this District the farmers have taken advantage of the liberality of our government. (who furnish double the amount of any private subscriptions) and have formed an Agricultural Society, having for its object the importation and improvement of farm stock and produce, the improvement of tillage, agricultural implements, &c., the encouragement of domestic manufactures, of useful inventions, and generally of every branch of rural and domestic economy.

A meeting of the Society will take place at the contractions.

tions, and generally of every branch of tural and commercial commercial stream of the Society will take place at this town on the second Wednesday in next October, when will be exhibited a perhaps somewhat small, but very choice stock of Durham and Devon cattle, Leiceater and South Down Sheep, Berkshire, Hampshire, Shropshere, Montgomeryshire, Improved Yorkshire and other pigs. There will doubtles be many horses shown, but I very much doubt there being any really good ones. I have heard of some of your high spirited countrymen visiting such exhibitions in this Province; if any of them will favor us with their presence, they may rely upon courteous treatment. It may be proper for me to add that Guelph is situated about 30 miles from Port Hamilton, at the head of Lake Ontario. I am, gentlemen, your obedient servant, JOHN HARLAND.

Guelph, U. C., July 9, 1841.

The Hossian Fly.

Messas. Envoras—I observed in your last (June number,) a communication relative to the Hessian Fly, the writer of which endeavors to confirm the opinion adopted by Miss Morris of Germantown, that the ovum is deposited in the grain before it is harvested.

The article in question contains many judicious and valuable remarks, evidently evincing that Mr. Mines has closely observed much that is essential in the culture of wheat. But however plausible the theory that the egg is deposited in the grain, it is not borne out by my own experience, and facts that have come under my observation.

It is now about 60 years since the Fly made its appearance in this country, being first discovered, (in its "flax seed" state,) on the farm on which I now reside, and on one about a mile and a quarter distant, then owned by Rem Adriance. The Hessians had previously been quartered in the neighborhood. The introduction of the Fly was ascribed to them, and it was asserted, from what was then considered good authority, that the insects then existed in Hanover, or in the north of Germany. Hence the name.

I am aware this has been denied: it having been said, inour

had previously been quartered in the neighborhood. The introduction of the Fly was ascribed to them, and it was asserted, from what was then considered good authority, that the insects then existed in Hanover, or in the north of Germany. Hence the name.

I am aware this has been denied; it having been said, inquiries instituted resulted in the conviction that the Fly was not known in Hanover.

At the time of their discovery here, each of the farms in question contained a piece of wheat damaged by this insect. It is probable they had been introduced a few years previous, and that their number was augmenting rapidly, though unobserved. This, however, was the first miss crop which they were known to produce.

More than 40 years ago, I had a small piece of winter barley, sown, however, in the spring, in which not a single stalk head-ed, on account of the bug. I counted over 140 of the insects in a single stalk, some of which, in consequence, grew at the joints as thick as a man's finger.

From 60 years' observation, I amled to the conclusion that the seed is deposited in the plant soon after it comes up. I will relate a single experiment as proof that the egg is not deposited in the grain. About 40 years ago, I procured two bushels of wheat from the Genesee country, then an "uninfected district," which I sowed adjoining seed of my own gathering. Both pieces were severely damaged by the Hessian Fly. This, to my mind, was conclusive proof that the seed was deposited in the plant during the progress of growth, and not in the grain to my mind, was conclusive proof that the seed was deposited in the plant during the progress of growth, and not in the grain to my mind, was conclusive proof that the seed was deposited in the plant during the progress of growth, and not in the grain to my mind, was conclusive proof that the seed was deposited in the plant during the progress of growth, and not in the grain to my mind was conclusive proof that the seed was deposited in the plant during the progress of growth, and not in the

weeds grew, which afforded shelter and protection to the Fly.

Brooklyn, N. Y. June 21, 1841. GARRET BERGEN.

Weight of Hogs—The Byfields.

Messrs. Gaylord & Tocker—I observed in the last number of your paper, the weight of Berkshire and Woburn pigs. Some few years ago, a friend of mine from the County of Orange in this State, sent me two small pigs, male and female, of the Byfield breed. The male I have yet; the female was run over by a train of cars when she was two years old, giving suck to 6 pigs; site then weighed 300 lbs. nett, and I suppose if she had been fattened, would have weighed at least 400 to 500 lbs. I gave, the 6th of July, to two of my servants, two pigs of the half breed. One of them was my miller, and I suppose he gave him as much as he would eat of corn meal, &c.; the other was given to my blacksmith, which was fed upon bread crust, parsiey, squashes, cabbages, and sometimes a little corn. They were killed at six months old—the miller's weighed 163 lbs. nett, and the blacksmith's 173 lbs. nett. They were one month old when I gave them to them. I gave my brother and a nephew, two of the genuine breed, a mile a piece; they killed them last vear; my nephew's weighed 373 lbs. nett, and my brother's 343 lbs. nett. My brother has the Berkshire and the Surry, and he says he is sorry he killed the Byfield. My nephew who is the most successful farmer in my neighborhood, and who you see the Editor of the Southern Planter mentions in one of his numbers (Mr. Edward Winsted,) is so pleased with them that he says he prefers them to any breed he ever had. I had about 30 years ago, two Spanish hogs, which my brother brought from Cadiz, which I liked very much.

Yours respectfully.

Taylorsville, Hanover Co. Va., 1841. W. D. TAYLOR.

## Inquiry.

Messrs. Editors—I should be pleased to see in the Cultivator an explanation of the causes which produce a premature decay of the head of our common June grass, Poa protensis. I have observed it in many meadows and fields the present as to change the color of the whole field. The head of the grass does not, however, look ripe, but dead white, and has evidently been killed before maturity. Last year, it was said a worm like the Hessian fly worm was the cause, and was to be found in the grass. I have examined many this spring, but can see none. The grass generally diev at the first or second joint from the top.

A. B."

Come row Mexaux.—This terrible epidemic, which has caused so much loss in Britain and on the Continent, has at last resched Ireland, and necording to the Durham Advertiser, a priest near Muff, in Westmeath, is converting the calamity into a profitable speculation. "He sells 'blessed salts' as a preventive and cure at 2s. 6d. to comfortable farmers, is, to the poorer class; but the priest says they are of no use to any cattle but those whose owners purchase direct from him. The deluded people are sending sixty or one lendred miles for this miraculous sulphate of soda.

SHEEF WIM FOUL NOSES.—The Am. Farmer area:—Make

raculous sulphate of sodu. 15

SHERF WITH FOUR NORMS.—The Am. Farmer says:—Make
small map or swab, by wrapping a rag about the end of a stic
—dip this in tart, taking up as much as will adduce to it—ro
this in sait, and then thrusting it into the sheep's mouth, ho
it there till he is forced to withdraw and swallow the tar and it
asit, and your sheep will soon get good heath and clean nove

### On Bees-No. 4.

A swarm of bees weighing seven pounds when hived, should not be compelled to warm more than one bushel of space by their animal, or rather itseeth heat. As "the conditions of the plain of the plain is the of bees determines its success and profit to its owner," the attention of the Apiarian must be most scrupplously directed to this point. When bees are compelled to warm more space than it secessary for their convenience at war feelbe in their best state, under such circumstances, and the family of bees frequently dwinds away, and leave their feelbe young, dead larve, and claysalis to the merciless deprendents of their reduced scale and the control of the control of their produced to the control of their produced and their produced and their reduced and their and their plain and their with the bees of other nives. If a swarm of bees weigh over seven pounds at hiving, the drawers of the weather; if very hot, more room is required: the bees show this by leaving the locks of honey as the weather grows a few in the control of their work of the weather; if very hot, more room is required: the bees show this by leaving the locks of honey as the weather grows of the weighing less than seven pounds at swarming, should be doubled in with each other, until a good swarm is collected, and their the produced of the weighing less than seven pounds at swarming, should be doubled in with each other, until a good swarm is collected, and their the produced of the swarming hives, the collateral loss in filled with bees, the thermometer with the collateral loss in filled with bees, the thermometer with the collateral loss in filled with bees, the thermometer with the collateral loss in filled with bees, the thremometer with the collateral loss in filled with bees, the thremometer with the collateral loss in filled with bees, the thremometer with the collateral loss in filled with bees, the thremometer with the collateral loss in filled with bees, the thremometer with the collateral loss in the collateral loss that the collateral l

## "Protection against Drouth."

"Frotection against Drouth."

Massas Euroae—Under the above head, I have seen in some of the journals, an article copied from the Yankee Farmer, the first paragraph of which reads as follows:—"In tillage, the best protection against drouth that can be conveniently practiced to a great extent, is frequently stirring the earth, so as to keep it light and loose. In this way the earth at the surface is in many small particles, which serve as a non-conductor of moisture, and retains it below, where the roots obtain a supply." The first part of this quotation is correct; the latter part is incorrect, and the fact directly the reverse, as indeed the writer himself demonstrates in the course of his article. This subject is one of so much practical consequence to the farmer, that and gardenors are not apt to perform labor in cultivating a crop, unless there seems good reason to suppose it will be repaid.

If there is any axiom in agriculture that will not admit of dispute, it is, that the power of soils to absorb water depends on their foreness and frisbilitys. This is equally true, whether the water is drawn from the earth by capillary attraction, of room the atmosphere by combination and absorption. It is true that frequently stirred soils give off water by evaporation more rapid than balanced by the additional power conferred of acquiring it. The fact is, that because the stirred earth is a good "conductor of moisture," and prevents its remaining uscless below, that hoeing plants is one of the best methods of counteracting drouth. Loudon says, "the power of the soil to absorb water from air, is much sometics which water by capillary attraction, depends in a great measure, upon the state of division of its parts; the more divided they are, the greater is the absorbent power."

"The power of soil to absorb water from air, is much sometics which eater into their composition. In general, the more fairly and by both the exterior and interior during the night."

Chaptal says—"All slois have not the same affinity for water,

## History of the Pirst Imported Berkshires.

Strently was larger and longer than Peggy, of a jet black color, with a white stripe in her face, white feet, and some small white spots on her body. She was larger in the head and longer in the snout, ears longer and pitching forward. She was long in the body, more rangy and straight on the back, and tail set on higher, and was not equal to Peggy in the ham. She was famous for having large litters of pizs, seldom having less than twelve at a litter, and sometimes fourteen to sixteen. I slaughtered her in 1839.

"Jack of Newberry" was the first imported Berkshire boar brought to this section; was a large, rangy and superior animal—as the stock he left behind him is ample evidence: was about as light colored as Peggy, and slightly tinged with red or rusty color; was long and round in the body; very sloping from the hips to the tail; large and heavy hams for a boar; fine large shoulders, with a short thick neck, and medium sized head and ear; would weigh probably, in ordinary condition, from 350 to 400 lbs. Mr. Hawes sold him in 1835, to a gentleman in Troy, and afterwards he was sold again to a farmer in a western county of this State, which is the last we heard of him. "Jack of Newberry" was to the hogs in this country, what the "Godolphin Arabian," was to the hogs in this country, what the "Godolphin Arabian," was to the horses in England.

In the summer of 1833, Mr. Hawes imported another Berkshire sow, called "Sally," which he said "was bred in Norfolk, from Berks stock." She was the largest and coarsest sow of the three; was larger in the head and legg, ears large, broad and drooping more over the eyes, body long, deep and capacious, very sloping on the rump, and tolerably good in the hams, color blue-black, a little tinged with rust, more white, and spots larger than either of the others. Sally, when young was rather a shy breeder, and Mr. Hawes disposed of her to H. Holland. E-q., of Ballston Spa, and I purchased her at his sale in the fall of 1836. I took three littering, much regretted by her owner as w

Three Hills Farm, 1841.

## Manure.

Manure.

Manure is an important article in the zultivation of the soil; and its employment is so often referred to in the Cultivator and other agricultural works, that we want a uniform standard to designate quantities when used in the ordinary method, and particularly when relating experiments. In the application of manure, a load is an indefinite quantity. In the southern part of the State, where manure is purchased in the city of New-York, a load is a cartman's cart-box full, containing about fourteen bushels, and drawn by one horse. A friend of mine in Connecticut, near a thriving village, purchased some manure from a livery stable, and I saw two loads delivered at his farm. It was contained in ox-carts with loose sides above the permanent ones, and contained at least four times the quantity of a city cart load; and yet these eight were in that case only two loads of manure. An ordinary ox-cart will contain two city cart-loads. But ox-carts again vary in size, leaving it uncertain what quantity is contained in a load. I have rend agricultural works where the quantity of manure applied to a crop, was stated by the cart-load, by the car cart-load, by the ton, and also by the cord. Can the Editors of the Cultivator reconcile these differences, and recommend to their correspondents to adopt a definite quantity for a load, and for the better understanding of their readers, to reduce cords and tons into loads?

Bistory of the First Imported Berkshires.

To Synay Hawes, Esq., are we indebted for the introduction of the now famous and popular terkshire breed of hogs. It is well known in this section, that when he emigrated to this country in the fall of 1822, and settled on the farm I now occupy, called "Three Hills Farm," he brought with him three Berkshire pigs—one boar and two sows, since known by the names of "Jack of Newberry," "Peggy," and three Berkshire pigs—one boar and two sows, since known by the names of "Jack of Newberry," "Peggy," and many self, who obtained pigs of the first litters. It was not until 1834, however, when Mr. Hawes exhibited them at ose of our Fairs, that they attracted much attention and in fact, they were in so little demand, even in 1825, when I purchased them, which was in July, that most of his spring laters were still on hand, and the boars were altered with the intention of fattening them for pork.

If we are indebted to Mr. Hawes for the first importation of them, we are equally indebted to the Cultivator and other "land shads," "alignators," &cc. are fast disappearing, and the round, plump and stately Berkshires are taking undepted by the states, and the round, plump and stately Berkshires are taking undepted by the states, and the round, plump and stately Berkshires are taking undepted by the states, and the round, plump and stately Berkshires are taking undepted pages, for a more extended introduction and dissemination of them through the United States, where now he "land shads," "alignators," &cc. are fast disappearing, and the round, plump and stately Berkshires are taking undepted by the states, and the round, plump and stately Berkshires are taking undepted by the states, and the round, plump and stately Berkshires are taking undepted by the states, and the round plump and stately Berkshires are taking undepted by the states, and the round plump and stately Berkshires are taking undepted by the states, and the round plump and stately Berkshires are taking undepted by the stat

## Correspondence, Inquiries, &c.

Farming in the Southwest.

We make the following extract from a letter written by "Uncle Jo," Lawrence Co. Tennessee, in acknow-ledgment of the receipt of a set of the back volumes of the Cultivator, ordered by him. We should be glad to give the whole of the letter did our limits permit, for we like such "off hand" farmer's letters; they always tell. "Uncle Jo" may rest assured that there is no necessity of a corn crop of 25 bushels per acre; and the crops reported from Kentucky, since an improved system of culture was adopted, fully show this. The corn crop of Tennessee now exceeds that of any other State; by a rotation of crops and the feeding of more cattle and swine to make the requisite manure, this crop, if desirable, might be doubled:

"If you raise 100 bushels of corn per acre, and we get but 29, why in the name of common sense should we not abandon our plan and adopt yours! Is it good sense to persist in known and willful eror, merely to be thought consistent? I for one will try your plan, especially in corn, and if it fails, I may then have some grounds for complaining of your advice, and with ease can return to my own ruinous and impoverishing system. I don't believe there is one half of the folks in this part of the country who hear of your large crops of corn, that believe a word of it. Some say the Cultivator is a Yanke machine for making moner, and its statements, chaff, stuff, fudge, &c. They ask 'do you believe half' it hem' Cultivators say? Ah! I tell you them editors will print any thing for money. It is true, there are many things new to us in your papers, and in your systems of farming, and if you are right, we are certainly wrong. I know you are right in one thing, and that is your description of our manner of doing business; true sir, true as preaching. One idea entirely new to many of us, I will mention; that its does not be powing of corn, and barbarously mangling the roots was the very life of it; but the new way says you might as well every the office of the hill. The banks have faite

### Sugar and Starch from Corn

A correspondent, "Viator," has suggested that Indian corn might be profitably cultivated for the sake of the sugar and the starch the stalk and the grain would afford; and requests, if any of the readers of the Cultivator are acquainted with any facts having a bearing on the subject, they would be kind enough to communicate them for publication. He wishes to ascertain, if known, the quantity of corn stalk juice it would take to make a gallon of molasses; and whether the "starch which may be obtained from the corn when the ears have attained their full size, and the kernels are filled with milk, would not justify the expense of manufacturing." If any of our readers can give information on this subject, we should be glad to receive it for publication in the Cultivator.

milk, would not justify the expense of manufacturing." If any of our readers can give information on this subject, we should be glad to receive it for publication in the Cultivator.

During the revolutionary war, molasses was frequently made from the corn stalk, and while it could be kept from fermentation, it was highly prized; but it soon became tart, an evil doubtless easily corrected by lime, as is now practiced in all sugar manufactories. Corn was tried in France for a source of sugar, but the beet was found to be preferable, and maize was abandoned. According to Humboldt, molasses is sometimes made in Mexico from corn stalks as it is in other places from the sugar cane. We question, however, whether corn will ever be cultivated for the sake of the sugar; if the grain can be converted into starch as Viator supposes, the case may be different. Viator has overlooked an important product of corn which it is possible might be made available. We have seen barrels of a fine lamp oil taken from the vats of a large distillery. It was ascertained that a bushel of corn worked, gave over a pint of oil; was easily purified, and burned, as we can testify, with a clear bright flame. If molasses, starch, and oil could be produced from corn, it would add to the already high character given it by Arator, (John Taylor,) who pronounced it to be "meal, meadow, and meat."

To expel the Clothes Moth and Cockroach.

To expel the Clothes Moth and Cockronch. To expel the Clothes Moth and Cockroach.

A "Subscriber" at Long Green, Md., requests some information on the mode of expelling the pests named above from places where they have obtained a footing. Clothes presses that are perfectly close, may be fumigated with sulphur, which will destroy all insects, if thoroughly performed. Tobacco and camphor will prevent injury to clothes, if quantities are placed in contact with clothing of any kind in their place of deposit; unwashed wool is never attacked by the moth larvæ; and it has been used successfully to effect their expulsion, by placing locks of wool as sheared from the sheep, in places infested by them; still when once the moth has established itself, it is not expelled in ordinary cases, without much care and difficulty.

The cockroach may be destroyed by mixing with Indian meal about one-third it quantity of white or red lead, and moistening the mixture with molasses so as to make it moderately adhesive; this being placed in places infested with them will be greedily devoured; and by repeating the dose, the whole will be destroyed.

Other poisons, such as arsenic, or sublimate, may be used mixed with molasses, but where lead, or any other poison is used, great care is required to prevent danger or death from its being eaten by others than those for which it was intended.

Chess from Rye.

GEORGE MUNTZ, Esq. of Butler Co. Pa., has forward us an account of an instance on his farm, of the ansmutation of rye into chess:—

transmutation of rye into chess:—

"He harvested from a field a crop of wheat 'clear of cheat.' turned in the stubble in August, and about the middle of September commenced sowing with rye, plowing it in. When all was sown but two acres, a heavy rain lasting some hours came on, and it was three or four days before the field was fit to commence working upon, and the sowing and plowing was recommenced after that time while the ground was still wet and cloggy. The rye first sown, gave a fine crop of good grain; that sown after the rain, as fine a crop of chess, with but little rye mixed with it. It was observed that the chess was in the greatest quantity in the part sowa first after the rain, and decreased as the ground became drier before sowing."

we give the foregoing, not because we deem the conversion supposed, possible, as our readers are well aware, but because the facts stated may be of use in cautioning farmers against sowing lands with any grain, and particularly the less hardy kinds, while the soil is in a wet and unfit condition. We have repeatedly known failures both of grain and corn from this cause, and where the regular crop fails, weeds are sure to supply the place.

# the place. Turning Cattle into the Highway.

Turning Cattle into the Highway.

"Massas. Editors—I sat a few days since in my old arm chair perusing the back volumes of the Cultivator, when I came across the farm account of Mr. Asa Carter of Jefferson Co. N. Y. I perused it with a good degree of interest and good feeling till I came to where he says he pastured his young cattle on the commons, when suddenly I felt my indignation getting the better of my good feeling, and I turned away from it with a feeling not unlike contempt, and thinking that in that respect at least, I could find a better teacher than Mr. Carter. It appears to me the man must lack one of the most essential elements of a good neighbor, who will turn his cattle into the road to flich their living from his kind neighbors. Cattle thus turned out, become unruly, and are every where except where they should be; and are kicked, stoned and dogged by all, unless they are endowed with an uncommon share of patience. We have to put ourselves in battle array, and daily examine our fences by the way-side, or wo be to our corn fields. Who would choose that man for a neighbor who makes it a practice to keep a dozen head of cattle in the road, and half as many half-starved, lantern-jawed, piked-nose, saw-horse breed of hogs that will go through a fence any where, where they can put their nose through I The way to have good neighborhood. As Esway vo Liriagod line fences, and your cattle out of the commons, and my word for it you will have a good neighborhood. As Esway vo Liriagod line fences, and your cattle out of the commons, and my word for it you will have a good neighborhood. As Esway vo Liriagod line fences, and your cattle out of the commons, and my word for it you will have a good neighborhood. As Esway vo Liriagod line fences, and your cattle out of the commons, and my word for it

you will have a good neighborhood. An Enemy to Littoation."

[We have not had the pleasure of seeing Mr. Carter's farm, but we are aware that in many parts of the western and northern counties where there are large quantities of unenclosed lands, large stocks of cattle run at large, finding in the woods abundance of pasturage, and it is possible Mr. Carter's "commons" may be of that kind, and our correspondent's "indignation" so far misplaced. The remarks are, however, applicable, as the almanac makers say, to more latitudes than that of Jefferson County; and the evil complained of, is one that should be abated wherever it exists.]

Lucerne.

"Massas. Eidtons—Were I a writing character, I would tell you of a piece of lucerne planted the first week in September, has been cut once, and is now ready to cut again, to feed my mileh cows. It is the first attempt at field culture in this county. A few individuals have had their beds in the garden edged with it, but no one has ventured to try it in lots. Mine has turned out so well, that I think many will give it a trial next year. We should be pleased to have some directions in your paper about saving the seed.

Lexington, N. C. June 2, 1841.

Lexington, N. C. June 2, 1841.

A deep dry soil, one containing considerable sand, is found best for the lucerne. In France, where it is cultivated extensively, the two great requisites are "a rich and dry soil." It may be sown in drills or broadcast, but the first is preferred, as it gives an opportunity for hoeing. In Kent, Great Britain, where it is much used for soiling milch cows, it is sown broadcast, and as the roots run deep, after the first year it is manured and cultivated with the harrow, which stirs the soil without injury to the plant. The seed is saved in the same way as clover seed, but is separated from the chaff either by hand, or in mills, much more easily. It is an invaluable plant in soils and climates adapted to its culture, and if experience should show it to succeed in the south, its acquisition for the feeding of cattle, where the common grasses are rarely found, will be an important one.

besides giving £75 to each county, to be expended by the agricultural societies. The friends of agriculture in Nova Scotia have made an excellent beginning, and they are fully justified in expecting many important re-sults in aid of that great source of national wealth from the expenditure.

## Straw Cutter for Horse Power.

Straw Cutter for Horse Power.

Jacob GLATZ, P. M. Marietta, Pa. inquires "wheth
er there is such a thing as a Straw Cutter that goes by
horse power?" We know of none built expressly for
this purpose, but there are thousands about the country
worked by horse power, and nearly all the approved
kinds may be worked in this way. The man who has
a horse power, can easily make it available for sawing
his wood, thrashing his grain, cutting his straw, &c.
Green's or Willis' Straw Cutters, can be easily adapted
by any mechanic to horse power. by any mechanic to horse power.

a horse power, can easily make it available for sawing his wood, thrashing his grain, cutting his straw, &c. Green's or Willis' Straw Cutters, can be easily adapted by any mechanic to horse power.

Corn—Protection against Drouth.

A correspondent, "Pearl," in Hinds Co. Mississippi, after entering a demurrer to the opinion expressed by Mr. Garnett and ourselves, in the first number of the current volume, that "frequent stirring the earth is the best protection against drouth," goes on to say:

"In the driest year I ever saw a crop made, (1822,) I saw corn in a field where a part was plowed, and a part a plow had never been in, only a row dividing; and the plowed part was so dry that every step you took the dust would rise, and your shoe be covered with the light soil. In this part the corn was hadly high, while the others were green to the earth. I pointed out this field to an old planter who believed in frequent plowing to cause moisture to rise, and he acknowledged he could not account for It. Again, in the same year! cultivated a piece of cotton with the sweep and harrow, another piece as usual, with the plow, only a path through the field dividing; and this same drouth the best. But with all this, I say use the plow occasionally, not to prevent the drouth, for when very dry, it appears to me the more the damp earth is exposed, and the dry earth turned in, the more the crop must suffer; and the more the rost are disturbed, the less nutriment the plant must receive. I have seen the linest kind of corn growing by the side of a large log where there was no chance of plowing near on one side, and the surface afford more shade to the earth kind by turning it under? I am decidedly in favor of leaving the earth so the surface afford more shade to the earth than by turning it under? I am decidedly in favor of leaving the earth as near level as possible, and keeping it light and mellow, but cannot see how stirring the said indown the search will make moistore rise."

Notwithstanding the statements of our correspondent

CARBONIC GAS IN WELLS.—J. S. SLATTER, of Glenville, Alabama, has furnished us an interesting account of the expulsion of this gas from a well. It was necessary to dig a well at a particular point, and after sinking it about 20 feet, a rock was struck which it was necessary to penetrate, but the well filled so rapidly with carbonic gas, that the laborers found it impossible to work, and were once or twice drawn up so exhausted that they were with difficulty restored. Throwing water into the well was tried with little benefit; when it occurred to the owner of the farm, to try forcing a current of air into the well. A blacksmith's bellows was brought, a leather tube fitted to its nose long enough to reach the bottom of the well, and by briskly plying the

bellows the deleterious air was quickly expelled, the rock perforated, and excellent water obtained.

## National Agricultural Society.

rock perforated, and excellent water obtained.

National Agricultural Society.

We have several communications on this subject, which our limits compel us to abridge. The first is from W. Penn Kinzen, Spring Lawn Farm, Pequea, Pa. Speaking of the advantages of a National Society of Agriculture, he says:

"Information with regard to domestic animals, crops, &c. would not only become common stock by publication, but if annual conventions be held early in autumn, they would at once determine the real state of the crops throughout the Union, by concentrating a store of correct information from the proper source; which at present, is mere Aearssy: then, of course, the question whether the general stock of bread stuffs will be short for home consumption, is at once ascertained, or if there be a small or large surplus for exportation, farmers will be equally interested in having correct and early information. They will not be held in suspense, whether to sell or store, as at present. The great national question too, in relation to a protective tariff on imposts, which is now producing a contrariety of opinion, will thus be met, by a tribunal which will not and dare not be disregarded. A question, it need not be said, vitally connected with the present paralysis of American industry. Farmers then will look with an eye single to the elevation of the character and standing of the cultivators of the American soil, and select from their number, suitable representatives, to guard their interests, to the exclusion of the mere petitiogger, to whose political appetite they have too long pandered; who, if he were desirous, would be ignorant of their interests, to guard their interests, to the exclusion of the mere petitiogger, to whose political appetite they have too long pandered; who, if he were desirous, would be ignorant of their interests, to guard their interests for the productive classes, from all the states of the Union, states speaking through their delegates, where political and partizan spirit may look in, but dare

Mr. Ainzer concludes of follows:

"On his promised route to Washington city in August, will our common friend, S. Romysox, anticipate for himself, or do nimself the pleasure of a ride on our Pennsylvania line of improvements, from Pittsburg to Philadelphia, thence by the faltimore railway to Washington! This route will afford, in addition to its expedition, seenery for the Agriculturist, which I think he will be unwilling to forego. When he shall arrive within fifty miles of Philadelphia, at a point on the railway called the Gap, we invite a halt, thence he will be directed a short walk to our wkeresolus! I need not say, he may here depend on a cordial and hearty welcome. I would just suggest, that he prepare himself to deliver an occasional agricultural lecture while on his tour. May I hear from him?"

"A YOUNG FARMER," of Woodlawn, N. C., says:

lecture while on his tour. May I hear from him?"

"A Young Farmen," of Woodlawn, N. C., says:
"No one, who will for a moment look at the condition of the farming interests of the country, can doubt the necessity, of such an institution. This we readily admit. Then why admit the necessity, and doubt the expediency? It seems to me that all that is necessary to make it expedient, is for the farming community to see and feel that such a scheme is necessary. Then why should we hesitate longer? Recollect that the farmers of our country are a diffident and unassuming people. If a few such men as Mr. Robinson and Garnett would take the lead, the great mass of the farmers would soon follow. I am anxious to see something done for the cause of agriculture. But I have no hope of seeing it, unless we can unite, and do it ourselves. We need expect no aid from legislative bodies, unless we first make it a popular measure. Party spirit, like Aaron's rod, seems to have swallowed up their every faculty. Let us then, like a band of brothers, unite on some plan to concentrate our strength. If we succeed in this, we can make our power felt and respected in any portion of our commonwealth."

centrate our strength. If we succeed in this, we com make our power felt and respected in any portion of our commonwealth."

The next we give, is from Mr. A. G. Alsworth, Canton, Mississippi:

"But how true it is, that many of the cultivators of the soil, for want of union and information, have been left for ages to grope their way through ignorance and prejudices. If I am not very much mistaken in the signs of the times, there is a great change now going on in this country. Just at a glance of our agrecultural census, what wonders are told of our resources. Now if the cultivation of the soil can be made to appear both honorable and profitable, how many more will be ready to enlist in the cause. We have a great many gentlemen of the ber, bankers, brokers, and others, who will soon have to obtain their subsistence by some other means than their profession, and I doubt not, many of them, with practical knowledge upon the subject, would make good farmers. Now, how is this object, "the elevation of the character and standing of the cultivators of the American soil," to be attained? I think it is to be done, first, by formers associating themselves together, forming agricultural societies, and publishing and extensively circulating agricultural journals. In this way, every farmer, it matters not how limited his education, if he will take and read them, can obtain the experience, if he will not experiment inself, of those who are endeavoring to promoting the interests of agriculture. Thus all are brought aimost mediately to the best manner of knowing, obtaining, and promoting their interests. And in the second place, by establishing agriculture as the sound place, by establishing agriculture. Thus all are brought aimost with practice."

A correspondent who signs himself "Northern New York 20 feb.

A correspondent who signs himself "Northern New-York," from Ballston, takes another view of the matter. He says :

matter. He says:

"I have strong doubts of the practicability, and consequently of the usefulness of such a Society, owing to the great extent of our country and the expense of attending such a convention. Our agricultural community is composed of thousands of intelligent, though comparatively small farmers, who never could afford to attend a National Convention; a farmer of a capital of from \$2,900 to \$8,000, consisting in from 50 to 150 acres of land, it being a fact well known, that a very large proportion of the farmers of the northern and castern States are of this de-

scription, and never would attend such a convention. Again any result they might arrive at when met, by a majority of votes, touching any disputed point in agricultural science, would scarcely command universal assent. Wheat turning to chess, or chess to wheat, or any mooted case, will never satisfactorily be settled by a vote in convention. It would also have a tendency to create a kind of agricultural aristocracy in which none but the rich could participate. Better lay out the money spent in traveling to distant conventions, in diffusing throughout the length and breadth of this Republic, agricultural papers, containing the investigations, experiments and results of practical and scientific farmers; (on this point, I was struck with the very sound common sense remarks of your correspondent, F. Bux of Ohio, in your July number of the Cultivator, so that the man who cultivates his ten acres, as well as he that cultivates his hundreds or thousands, can, when he comes in from his garden or field, seat himself on his summer stoop, and in the shade of his shrubbery, read his Cultivator or some other agricultural periodical, costing him one dollar a year, and learn the views, experiments, and practical results of his brother farmers throughout the country, and obtain thereby more knowledge, (book knowledge, if you please,) than by performing a journey at the expense of one hundred dollars to attend an agricultural convention at Washington or Baltimore. If you wish to improve the mind or elevate the standard of the mess of the farming community, the means to effect it must be brought within their circumstances."

### The "Skinning System," &c.

Mr. J. R. Moser, of Flint Rock, Lincoln co. N. C. gives the following account of the "skinning system," as practiced in that part of the United States:

as practiced in that part of the United States:

"The 'skinning system' is the only system that is generally in vogue among us, and that is practiced by some (excuse the expression) on an improved plan; for they plant their fields year after year in corn, and use no implement in its culture except a wretched fixture called a shovel-plow, with which they scrape their land, or perhaps at times the addition of a how. I said they acrope their land, that is, they scratch a fur row few inches deep; the condition of the first, that it may lust core they call breaking up their ground plowed surface. This they call 'breaking up their ground; some do not even break up their ground, but only mark it with their shovel-plows, so as to be enabled to deposit their seed in rows. The after culture is performed pretty much in the same manner as the breaking up. This is about all the culture their ground gets till the next season, when the same process is again gone through. This may give you some idea of our simproved system of skinning. This description, however, does not apply to all our farmers, for there are some who use better implements, cultivate their farms in a better manner, are endeavoring to introduce improvements, and are setting a praiseworthy example. Still it is a source of regret, that most of our farmers are opposed to the improvements in modern farming. They say the plans laid down in the Cultivator, and other publications, will answer well for the wealthy, but for hemselves, they are not able to follow them for the want of means."

means."

We hope Mr. Moser will succeed in his intention of carrying out a rotation of crops, as a proof such a system is adapted to the south, and in any country where wheat, corn, beets, clover, &c. can be grown, we are confident there can be no insurmountable difficulties. Animals to furnish manures; lucerne, clover, beets, corn, &c. for feeding them, would, in our opinion, be far more advantageous to the south than present systems, and speedily convince the planter that the great corn crops of the middle and northern States are no 'exaggeration.' Mr. M.'s suggestions respecting Botany and Entomology shall receive consideration.

Transmutation.—Mr. N. Sutherland, a staunch believer in the conversion of wheat into chess, gives the following methods by which that conversion may be effected. As the most of them are not difficult of trial, perhaps some may have the curiosity to prove them; and by performing the feat, entitle themselves to Mr. Ruffin's premium:

to Mr. Ruffin's premium:

"Wheat can be transmuted into chess by taking a few heads at harvest, and laying them on the ground to grow where they will not be disturbed, the land to be rather poor; or some heads may be taken that are scattered at harvest in the stubbles and grow, taking them up late in the fall, and setting them in a wheat-field; or some wheat may be put in a dish, and wet and dried as it is sprouting several times, and it will come up chess; or it may be fed or moved off when eight or nine inches high; any of these methods will change wheat to chess. There is another cause that is frequently operative, and that is the frequent freezing and thawing of the surface in moist lands, which, by drawing the roots partly out of the ground, so injures the plant that it cannot produce wheat."

CRACKED EARS IN PIGS.—Mr. Sutherland states the

Which, by drawing the roots parity out of the ground, so injures the plant that it cannot produce wheat."

Cracked ears in Pigs.—Mr. Sutherland states the cause of this complaint in swine, to be exposure to the heat of the sun when the skin is tender, and feeding exclusively on dry food. The preventive is to keep the pig out of the heat of the sun, and feed the sows and pigs with ground food mixed with boiled potatoes, or once or twice a week a mess of raw ones. The cure is effected by making some ley, by putting ashes in water and stirring them up, let them settle and drain off, and then with a watering pot sprinkle it over their ears, or over the whole body if scurfy; or ashes may be scattered over them while it is raining.

Swill To Sows.—"Do not feed your sows much swill or slop in a day or two after their littering. I have a man on my place, who gave his sow a pail of swill soon after she had pigged, and she died in an hour; and I have known several instances in which from such feeding, sows have died in the course of the day."

N. SCTHERLAND.

ITALIAN SPRING WHEAT.—J. EDWARDS, of Virgil,

N. SUTHERLAND.

ITALIAN SPRING WHEAT.—J. EDWARDS, of Virgil,
Cortland Co., states the result of a successful experiment in the culture of this grain. He went 70 miles
and procured 20 bushels of Italian wheat, which, by
thorough cleaning was reduced to 16. This was sown
in the spring of 1839, and produced 38 bushels to the
acre, or 468 bushels. The land was plowed only once,
but well pulverized with the harrow and cultivator, and
ten loads of leached ashes applied to the acre. This
wheat was sold for seed at two dollars per bushel. Mr.
Edwards has about 115 acres of cleared land, and from

the tilled part of this, (about one-half,) he has in the last four years, raised more than six thousand bushels of grain.

Posson or SNAKES.—The editor of the Tennessee 'Agriculturist,' in noticing the discovery of M. Bouchers, in the coloring and the preservation of timber by impregnating the tree through the circulation of the sap with metallic oxides, (an account of which may be found in the June number of the Cultivator.) makes the following remarks:—'However, there are other phenomenn full as mysterious. It is true, there is a kind of serpent called the 'horned-snake,' whose poison will so circulate through a tree it strikes, as to wilt the leaves in less than an hour, and finally to kill the stately oak. We have ourselves seen the experiment tried, of letting a rattle-snake strike a pole when in full sap, six or eight feet long, and in a few seconds the poison would ascend from the base end, and make its appearance at the top of the pole.'' A friend requests us to inquire, in what part of the country the "horned-snake" alluded to can be found; or in what authentic work, a description of it exists?

## Great Sale of Improved Stock.

Wys. Nary, Esq. advertises in the Western papers, that he will offer his extensive herd of Improved Short Horn Durhams, at public sale, on the 6th and 7th days of September next, at his farm near Cheviot, seven miles from Cincinanti. The cattalogue embraces fifty-two animals, all pure blood, and nine of which were imported. For a notice of this stock, see "Letters from the West," in the July Cultivator. It includes, as we are assured from other sources, some of the best blood and finest Durhams to be found in the country. There will be soid at the same time, a large number of fine hogs of the Grazier and Berkshire breeds, and a number of South Down, Bakewell, and Cotswold Sheep. One and two years credit will be given on the sales.

## Notices to Correspondents, &c.

Notices to Correspondents, &c.

Communications have been received, since our last, from A Subscriber, W. R. Peck, Commentator, J. M. Garnett, A. G. Alsworth, W. Pena Kinzer, J. H. Wilson, J. L. Bowman, C. N. Bement, W. D. Taylor, D. L., Wm. J. Wright, H. S. R., L. Physick, W. H. Sotham, Wm. Cother, An Onon. Farmer, J. Moveks, A. young Farmer, S. Moore, P., Northern New-York, One always willing to Learn, D. H. Cadwallader, Gco. Woodfire, A. Waish, M. Quimby, H. W. M., B. W. Brit, Solon Robinson. To Some notices of New Works, Answers to Inquiries, Communications, &c. intended for this number, are unavoidably deferred till next month.

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